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Progress in Rehabilitation Research

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INDIANA UNIVERSITY
DEPARTMENT OF PHYSICAL MEDICINE
AND REHABILITATION
School of Medicine



**American Congress of
Rehabilitation Medicine**

**American Society of
Neurorehabilitation**



2010 ACRM-ASNR Joint Educational Conference

October 20–23, 2010 | Hilton Montreal Bonaventure, Montreal, Quebec, Canada

Final Program

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Program Objectives

At the conclusion of this program, participants should be able to:

- Describe theoretically- and empirically-based models for understanding recovery of function.
- Explain practical and ethical obstacles associated with interdisciplinary rehabilitation.
- Evaluate evidence-based effectiveness of current rehabilitation care and systems-based research.
- Engage in rehabilitation research to expand the clinical knowledge base through international participation.
- Describe the impact of neuroscientific principles on advancing Neurorehabilitation.

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**American Congress of
Rehabilitation Medicine**



At-a-Glance

Tue Oct 19	5:45 – 8:00 pm	Early Career Social , Room: Castillon
Wed Oct 20	8:30 am – 5:15 pm 8:30 am – 3:45 pm 4:00 – 5:45 pm 4:00 – 6:00 pm 5:15 – 6:30 pm 6:30 – 9:00 pm	Pre-Conference Symposia <ul style="list-style-type: none"> Enhancing Outcome Measurement in Rehabilitation Settings, Room: St. Pierre Rehabilitation Robotics: Role in Neurological Recovery, Room: Outremont Challenges to Conducting Multi-Center Clinical Trials in Rehabilitation, Room: Westmount Early Career: Communicating Your Science , Room: Verdun/Lachine Early Career: Poster Session , Room: Fontaine B-G Stroke Networking Group, Room: Verriere ACRM-ASNR Joint Board Meeting, Room: LaSalle ASNR Board Meeting, Room: LaSalle
Thu Oct 21	8:00 – 8:30 am 8:30 – 10:00 am 10:30 am – 12:00 pm 11:30 am – 1:30 pm 12:00 – 7:00 pm 12:00 – 1:30 pm 1:30 – 3:00 pm 3:30 – 5:00 pm 7:00 – 9:00 pm	Opening Remarks, Room: Westmount/Outremont Plenary Sessions , Room: Westmount/Outremont <ul style="list-style-type: none"> Research and Policy Working Together to Improve the Lives of People With Disabilities Worldwide From “Transfer” to “Engagement:” Rethinking Knowledge Translation Mitchell Rosenthal Memorial Lecture <ul style="list-style-type: none"> Engagement In Rehabilitation—A Key Component of Services That Work? Room: Lachine Concurrent Symposia <ul style="list-style-type: none"> Interdisciplinary Comprehensive Arm Rehabilitation Evaluation Stroke Trial, Room: LaSalle Methodologies and Methods of Enhancing Community Participation After Brain Injury, Room: Westmount/Outremont Unveiling the NIH Toolbox – Instrument Development, Validation, Demonstration, and Implications for Research, Room: Verdun NNR Editorial Board Meeting, Room: Mansfield Poster Viewing (Meet with authors 5:00 – 7:00 pm), Room: Fontaine B-H Brucker International Lunch , (Ticketed Event), Room: Verriere Sheldon Berrol Memorial Chautauqua & BIAA , Room: Westmount/Outremont <ul style="list-style-type: none"> So You Say You Practice A Person-Centered Approach to Rehab: How Do You Really Know? Concurrent Symposia <ul style="list-style-type: none"> Community-Based Rehabilitation & Physical and Rehabilitation Medicine: What Should Be the Links? Room: La Portache The Role of Qualitative Metasynthesis in Evidence-Based Rehabilitation, Room: Verdun Advances in Outcome Measures for Neurologic Disorders, Room: Lachine Improving Interpersonal Competence in Individuals With TBI, Room: LaSalle BI-ISIG Business Meeting, Room: Westmount/Outremont SCI-SIG Business Meeting, Room: Mansfield Concurrent Symposia <ul style="list-style-type: none"> Virtual Reality & Game Apps for Motor Rehabilitation, Room: LaSalle Research Approaches to Acute & Chronic Low Back Pain Assessment & Treatment, Room: Verdun Assessing the Quality & Applicability of Systematic Reviews, Room: Lachine ACRM President’s Reception with Exhibitors , Room: Fontaine A
Fri Oct 22	7:00 am – 6:30 pm 6:45 – 8:00 am	Poster Viewing (Meet with authors 4:30 – 6:30 pm), Room: Fontaine B-H Continental Breakfast, Room: Fontaine A

Fri Oct 22, cont'd	7:00 – 8:00 am	Breakfast Symposia <ul style="list-style-type: none"> Development & Evaluation of Empirically-Based Interventions for Families After Adult & Adolescent Brain Injury, Room: Lachine Post-Traumatic Movement Disorders: Assessment & Management, Room: Verdun Functional Implications of Changes in Coordination Dynamics of Walking in Neurological Disabled Individuals, Room: Mont Royal Neuro-Imaging During Rehabilitation: Evaluating Changes in Stroke and TBI Patients, Room: LaSalle
	7:00 am – 6:30 pm	Exhibits Open , Room: Fontaine A
	8:00 – 9:30 am	Plenary Session , Room: Westmount/Outremont <ul style="list-style-type: none"> Bilateral Arm Movements: From Neurophysiology to Therapeutic Interventions
	10:00 – 11:30 am	Kenneth Viste, Jr. MD Memorial Lectureship , Room: Westmount/Outremont Outstanding Neurorehabilitation Clinician Scientist Lecture <ul style="list-style-type: none"> Understanding & Augmenting Motor Learning for the Benefit of Neurological Rehabilitation
	11:30 am – 12:30 pm	Research Roundtables, Room: Hampstead
	12:45 – 1:45 pm	ACRM Membership Meeting, Room: Westmount/Outremont
	1:45 – 2:45 pm	ASNR Membership Meeting, Room: Westmount/Outremont
	3:00 – 5:00 pm	Paper Presentations & Wilkerson Award Presentation, Room: Mont Royal
	3:00 – 4:30 pm	Concurrent Symposia <ul style="list-style-type: none"> Does Amantadine Hydrochloride Work in Promoting Recovery of Function Following Severe Brain Injury, Room: Verdun Measuring the Quality of Rehabilitation Care, Room: LaSalle Exercise After Stroke: Clinical Models, Cardiometabolic Health, & Community Translation, Room: Lachine
	5:30 – 6:30 pm	Reception , Room: La Portage Networking Above the 49th Parallel: Discover Rehabilitation Research in Quebec (CRIR-CIRIS-REPAR)
Sat Oct 23	7:00 – 9:30 pm	Henry B. Betts Awards Gala (Ticketed Event at McGill University Faculty Club)
	7:00 – 8:15 am	Continental Breakfast & Awards, Room: Westmount
	8:30 – 10:30 am	NIDRR Fellows Presentations , Room: La Portage
	8:30 – 10:30 am	Exhibits Open , Room: Fontaine A
	8:30 – 10:00 am	Concurrent Symposia <ul style="list-style-type: none"> The Case for Very Early Stroke Rehabilitation, Room: LaSalle Contracture Reduction, Head to Toe, Room: Mont Royal Activity-Based Therapies in Spinal Cord Injury, Room: Hampstead Sleep-Wake Disturbances Following Traumatic Brain Injury, Room: Cote-St-Luc
	10:30 am – 12:00 pm	Concurrent Symposia <ul style="list-style-type: none"> Wearable Sensors & Algorithms to Identify the Type, Quantity & Quality of Everyday Physical Activities, Room: Cote-St-Luc Acute Rehabilitation of Persons With Disorders of Consciousness, Room: LaSalle Executive Plus, A Comprehensive Neurorehabilitation Program, Room: Mont Royal Trunk Control & Its Implications on Spinal Cord Injury Rehabilitation, Room: Hampstead
	12:30 – 2:30 pm	J. Stanley Coulter Lecture Lunch , (Ticketed Event), Room: Verdun/Lachine <ul style="list-style-type: none"> Fulfilling the Promise: Supporting Participation in Daily Life
	2:30 – 4:00 pm	Concurrent Symposia <ul style="list-style-type: none"> Clinical Considerations in the Diagnosis and Treatment of Major Depression After Moderate to Severe TBI, Room: Hampstead The Brain Recovery Core: Building a Model System for Organized Stroke Rehabilitation, Room: LaSalle The Need for Early and Accurate Diagnosis of Mild Traumatic Brain Injury and Advances in Behavioral and Neuroimaging Diagnostic Research, Room: Cote-St-Luc Application of Best Evidence in Acquired Brain Injuries. The ERABI, Room: Mont Royal

Exhibition

Room: Fontaine A

ACRM President's Reception with Exhibitors

Thursday, October 21, 7:00 – 9:00 PM

Exhibits Open

Friday, October 22, 7:00 AM – 6:00 PM

Saturday, October 23, 8:30 – 10:30 AM

Exhibitors

Exhibitors as of press time. See Conference Journal for complete details.

American Congress of Rehabilitation Medicine

www.ACRM.org
9531 Valparaiso Ct, Suite A
Indianapolis, IN 46268 USA
317-471-8760
events@acrm.org

American Medical Rehabilitation Providers Association

www.amrpa.org
1710 N Street, NW
Washington, DC 20036-2907
888.346.4624

American Society of Neurorehabilitation

www.ASNR.com
5841 Cedar Lake Road, Suite 204
Minneapolis, MN 55416 USA
Shannon Wild
952-545-6324
asnr@llmsi.com

BKIN Technologies Ltd.

www.bkintechologies.com
St 1625 Biosciences Complex
116 Barrie Street
Kingston, ON K76 E3N6 CANADA
Anne Vivian-Scott, President & CEO
Stephen Scott, PhD
Ian Brown, PhD
613-533-3117
avivianscott@bkintechologies.com

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1600 JFK Blvd, Ste 1800
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Jeffrey Francis
215-239-3491
j.francis@elsevier.com

Interacoustics

www.interacoustics-us.com
7625 Golden Triangle Dr
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800-947-6334

International Brain Injury Association

www.internationalbrain.org
5909 Ashby Manor Place
Alexandria, VA 22310 USA
703.960.0027

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13430 N. Scottsdale Road, #104
Scottsdale, AZ 85254 USA
Todd Shewman
480-443-3413
marilyn.mee@noraxon.com

Pate Rehabilitation

www.paterehab.com
2655 Villa Creek Suite 140
Dallas, TX 75234 USA
Patti Davis & Jane Boutte
972-241-9334
pdavis@paterehab.com

ReMed

www.remed.com
16 Industrial Blvd, Suite 203
Paoli, PA 19301 USA
Dave Krych, MS, CCC-SLP
Sharon Murphy-Potts, BSN, CRRN
484-595-9300
info@remed.com

Saebo, Inc.

www.saebo.com
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Charlotte, NC 28217 USA
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888-284-5433
hhuffman@saebo.com

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www.spauldingnetwork.org
125 Nashua Street
Boston, MA 02114
Dianne Lamb
617-573-7000

TIRR Memorial Hermann

www.TIRR.org
1333 Moursund
Houston, TX 77030 USA
Susan Thomas
713-799-5000
TIRR.referrals@memorialhermann.org

Special Events

Thursday, October 21

Plenary Sessions

8:30 am – 10:00 am, Room: Westmount/Outremont

Research and Policy Working Together to Improve the Lives of People With Disabilities Worldwide

Faculty: Alana Officer, World Health Organization

From “Transfer” to “Engagement:” Rethinking Knowledge Translation

Faculty: Sarah Bowen, PhD

Details p. 9

Mitchell Rosenthal Memorial Lecture

Engagement in Rehabilitation — A Key Component of Services that Work?

10:30 am – 12:00 pm, Room: Lachine

Course Director: Kathryn McPherson, PhD

Faculty: Kathryn McPherson, PhD, Nicola Kayes, MA,
Gerben DeJong, PhD, FACRM, Michael Sullivan, PhD

Details p. 9

Bernard Brucker Memorial International Lunch

12:00 pm – 1:30 pm, Room: Verriere

Ticketed event. Details p. 10

Sheldon Berrol Memorial Chautauqua & Brain Injury Association Awards

So You Say You Practice a Person-Centered Approach to Rehab: How Do You Really Know if You Are?

1:30 pm – 3:00 pm, Room: Westmount/Outremont

Course Director: Christine MacDonell

Faculty: Christopher Poulos, MD, Angela Kwok, MSWRS,
Lorraine Riche, BMR, PT, Christine MacDonell

William Fields Caveness Award Honoree:

Wayne A. Gordon, PhD, ABPP/Cn, FACRM

Sheldon Berrol MD Clinical Service Award Honoree:

Jeffrey Englander, MD

Details p. 10

Friday, October 22

Plenary Session

8:00 am – 9:30 am, Room: Westmount/Outremont

Bilateral Arm Movements: From Neurophysiology to Therapeutic Interventions

Course Director: Monica A. Perez, PT, PhD

Faculty: Demetris Soteropoulos, PhD, Monica Perez, PT,
PhD, Steven Wolf, PT, PhD, FAPTA, FAHA, Andreas Luft, PhD

Details p. 12

ASNR Lectures

10:00 am – 11:30 am, Room: Westmount/Outremont

2010 Outstanding Neurorehabilitation Clinician Scientist Award

Understanding and Augmenting Motor Learning for the
Benefit of Neurological Rehabilitation

Lecturer: Pablo Celnik, MD

2010 Kenneth Viste, Jr, MD Memorial Lectureship

Lecturer: Alexander Dromerick, MD

Details p. 12

Networking Reception

5:30 pm – 6:30 pm, Room: La Portage

Networking Above the 49th Parallel: Discover Rehabilitation Research in Quebec

Open to all attendees with support from the Centre for
Interdisciplinary Research in Rehabilitation (CRIR), the Centre
for Interdisciplinary Research in Rehabilitation and Social
Integration (CIRRS), and the Quebec Rehabilitation Research
Network (REPAR). Details p. 14

Henry B. Betts Awards Gala

7:00 pm – 9:00 pm, Offsite ticketed event.

Location: McGill University Faculty Club

Help us honor the 2010 award winners and fellows from both
societies. Details p. 14

Saturday, October 23

J. Stanley Coulter Lecture Luncheon

12:30 pm – 2:30 pm, Room: Vardun/Lachine

Fulfilling the Promise: Supporting Participation in Daily Life

J. Stanley Coulter Lecturer: Carolyn Baum, PhD, OTR/L,
FAOTA

Ticketed Event. Details p. 15

Preconference

Tuesday, October 19

Early Career Symposium Kick-Off Social

5:45 pm – 8:00 pm, Room: Castillon

Wednesday, October 20

Registration Open

8:00 am – 5:00 pm, Room: Foyer

Pre-Conference Symposia

Enhancing Outcome Measurement in Rehabilitation Settings

8:30 am – 5:15 pm, Room: St. Pierre

Course Director: Allen Heinemann, PhD, ABPP (Rp), FACRM

Faculty: Linda Ehrlich-Jones, PhD, RN, Richard Gershon, PhD, Dave Gray, PhD, Allen Heinemann, PhD, ABPP (Rp), FACRM, Holly Hollingsworth, PhD, Susan Magasi, PhD, Jeanne Zanca, PhD, MPT

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the features of the NIH Assessment Center, a dynamic application that allows researchers to centralize instrument development, study administration, data management, and storage of statistical analysis results. Define methods and instruments to measure community participation and meaningful environments for participation. Evaluate clinicians' outcome assessment needs and methods to fulfill their instrumentation needs.

Eligible for APA credit.

Rehabilitation Robotics: Role in Neurological Recovery

8:30 am – 5:15 pm, Room: Outremont

Course Directors: George Wittenberg, MD, PhD, Hermano Igo Krebs, PhD

Faculty: George Wittenberg, MD, PhD, Hermano Igo Krebs, PhD, Mindy Levin, PhD, Albert Lo, MD, PhD, CPH, Theodore Milner, PhD, Susan Conroy, DSc, PT, Phillipe Archambault, PhD, Joelle Mast, PhD, CMO, T. George Hornby, PhD, PT, Joe Hidler, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Identify existing rehabilitation robots for upper and lower extremities, their design choices, and limitations. Discuss key clinical results on the use of therapeutic robotics for stroke rehabilitation. Discuss the potential of rehabilitation robotics as an evaluation tool.

An Experience-Based Discussion of Challenges to Conducting Multi-Center Clinical Trials in Rehabilitation

8:30 am – 5:15 pm, Room: Westmount

Course Director: Joseph Giacino, PhD, FACRM

Moderator: Mark Sherer, PhD, ABPP-CN, FACRM

Faculty: Joseph Giacino, PhD, FACRM, John Whyte, MD, PhD, FACRM, Kathy Bell, MD, JoAnn Brockway, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Outline the key elements of a well-designed randomized controlled trial. Identify three challenges to clinical trials design that are common to rehabilitation research. Describe three strategies to prevent or mitigate protocol violations and other threats to successful study completion.

Eligible for APA credit.

Early Career Program

Communicating Your Science: Speaking, Writing, and All that Jazz

8:30 am – 3:45 pm, Room: Verdun/Lachine

Course Director: Claire Kalpakjian, PhD, Steven Wolf, PT, PhD, FAPTA, FAHA

Faculty: Daniel Corcos, PhD, Stacieann Yuhasz, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Identify key elements of good communication in written, oral and visual forms. Integrate feedback from mentors and fellow attendees given during breakout sessions into their own personal communication style.

Early Career Poster Session

4:00 pm – 5:45 pm, Room: Fontaine B-G

Stroke Networking Group

4:00 pm – 6:00 pm, Room: Verriere

ACRM-ASNR Joint Board Meeting

5:15 pm – 6:30 pm, Room: LaSalle

ASNR Board Meeting

6:30 pm – 9:00 pm, Room: LaSalle

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Thursday, October 21

Registration Open

7:00 am – 5:00 pm, Room: Foyer

Opening Remarks

8:00 am – 8:30 am, Room: Westmount/Outremont

Joseph Giacino, PhD, FACRM, ACRM President

Michael Reding, MD, ASNR President

Plenary Sessions

8:30 am – 10:00 am, Room: Westmount/Outremont

Research and Policy Working Together to Improve the Lives of People With Disabilities Worldwide

Faculty: Alana Officer, Coordinator, Disability and Rehabilitation, World Health Organization (WHO), Geneva, Switzerland

Clinical/Research Objectives: At the conclusion of the session, participants should be able to: Identify key issues related to evidence-based policy in rehabilitation. Describe the relevance and influence of current research on health and rehabilitation policies. Discuss how research can be more influential.

Eligible for APA credit.

From “Transfer” to “Engagement:” Rethinking Knowledge Translation

Faculty: Sarah Bowen, PhD, Associate Professor, School of Public Health, Department of Public Health Services, University of Alberta, Edmonton, Canada

Clinical/Research Objectives: At the conclusion, participants should be able to: Identify limitations of common strategies intended to promote use of evidence in healthcare. Describe the differences between “end of project” and “integrated” KT. Identify three potential benefits of greater engagement between researchers and research users.

Eligible for APA credit.

Break

10:00 am – 10:30 am, Room: Foyer

Mitchell Rosenthal Memorial Lecture

Engagement in Rehabilitation — A Key Component of Services that Work?

10:30 am – 12:00 pm, Room: Lachine

Course Director: Kathryn McPherson, PhD

Faculty: Kathryn McPherson, PhD, AUT University, Auckland, New Zealand; Nicola Kayes, MA, AUT University, Auckland,

New Zealand; Gerben DeJong, PhD, FACRM, Center for Post-acute Studies, National Rehabilitation Hospital, Washington, DC; Michael Sullivan, PhD, Department of Psychology, McGill University, Montreal, Quebec, Canada

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the rationale for supporting an explicit focus on interventions to promote engagement as a part of rehabilitation. Outline the current level of evidence about engagement across a diverse array of rehabilitation patients (e.g., those with neurologic conditions, chronic musculoskeletal pain). Consider areas of their own practice/service that might facilitate or pose barriers to patient/client engagement.

Eligible for APA credit.

Concurrent Symposia— 10:30 am

Interdisciplinary Comprehensive Arm Rehabilitation Evaluation (ICARE) Stroke Trial: Rationale, Challenges, and Opportunities for a Phase III RCT in Neurorehabilitation

10:30 am – 12:00 pm, Room: LaSalle

Course Director: Carolee Winstein, PhD

Faculty: Carolee Winstein, PhD, Alex Dromerick, MD, Steven Wolf, PT, PhD, FAPTA, FAHA, Christianne Lane, PhD, Monica Nelsen, DPT

Clinical/Research Objectives: At the conclusion, participants should be able to: Delineate the critical components of a definitive RCT in neurorehabilitation. Describe the unique characteristics of a complex behavioral intervention in neurorehabilitation. List the most important ingredients for a successful neurorehabilitation clinical trial, including opportunities for all team members to participate.

Resource Facilitation: Methodologies and Methods of Enhancing Community Participation After Brain Injury

10:30 am – 12:00 pm, Room: Westmount/Outremont

Course Director: Lance Trexler, PhD, HSPP

Faculty: Lance Trexler, PhD, HSPP, Joanna Faydl, James Malec, PhD, ABPP-Cn, RP, FACRM, Tessa Hart, PhD, FACRM

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe at least two different post-acute models of intervention that enhance community participation and the research methods utilized to derive these findings. Describe and discuss the process of and possible measures for engagement in promoting community participation. Describe at least two different research methodologies that might be used for studies examining the effects of interventions targeting the level of participation.

Eligible for APA credit.

**Unveiling the NIH Toolbox—
Instrument Development, Validation,
Demonstration, and Implications for
Disability and Rehabilitation Research**

10:30 am – 12:00 pm, Room: Verdun

Course Director: Susan Magasi, PhD

Faculty: Susan Magasi, PhD, David Tulskey, PhD,
Richard Bohannon, PT, DPT, EdD, Richard Gershon, PhD,
Victor W. Mark, MD, Rose Marie Rine, PT, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the scope and structure of the NIH Toolbox. Identify the cognitive, motor, sensory and emotional domain content and the instrument's psychometric properties. Discuss the implications and opportunities of the NIH Toolbox for disability and rehabilitation research.

Eligible for APA credit.

NNR Editorial Board Meeting

11:30 am – 1:30 pm, Room: Mansfield

Poster Viewing

12:00 pm – 7:00 pm, Room: Fontaine B-H

Meet with authors, 5:00 pm – 7:00 pm.

Brucker International Lunch

12:00 pm – 1:30 pm, Room: Verriere

Ticketed event

Organized by the ACRM International Committee for attendees from outside the US! Everyone welcome. Speakers include Alana Officer, Coordinator, Disability and Rehabilitation, World Health Organization (WHO) and Sylvie Nadeau, Scientific Director of the Quebec Rehabilitation Research Network.

**Sheldon Berrol Memorial
Chautauqua & Brain Injury
Association Awards**

1:30 pm – 3:00 pm, Room: Westmount/Outremont

BIAA Awards:

The William Fields Caveness Award recognizes the individual who, through research on both a national and international level, made outstanding contributions to bettering the lives of people who have sustained brain injury.

2010 Honoree: Wayne A. Gordon, PhD, ABPP/Cn, FACRM

The Sheldon Berrol MD Clinical Service Award recognizes the individual who, through a long service career, has made an outstanding contribution to improving the quality of care, professional training and/or education in the field of brain injury.

2010 Honoree: Jeffrey Englander, MD

Sheldon Berrol Memorial Chautauqua:

**So You Say You Practice a
Person-Centered Approach to Rehab—
How Do You Really Know if You Are?**

Course Director: Christine MacDonell

Faculty: Christopher Poulos, MD, Port Kembla Hospital, Warrawong, New South Wales, Australia; Angela Kwok, MSWRS, BC Centre for Ability, Vancouver, British Columbia, Canada; Lorraine Riche, BMR, PT, Inova Health Care, Fairfax, VA; Christine MacDonell, Medical Rehabilitation and International Aging Services/Medical Rehabilitation, Washington, DC

Clinical/Research Objectives: At the conclusion, participants should be able to: Identify research that supports person-centered approaches. Discuss solutions to areas that are problematic in person-centered approaches. Discuss potential measures of person-centered approaches.

Eligible for APA credit.

Concurrent Symposia—1:30 pm

**Community-Based Rehabilitation (CBR)
and Physical and Rehabilitation Medicine—
What Should Be the Links?**

1:30 pm – 3:00 pm, Room: La Portache

Faculty: Alana Officer

Clinical/Research Objectives: At the conclusion, participants should be able to: Discuss CBR and how it has evolved since it was developed by WHO in the 1970s. Discuss new guidelines developed for program managers implementing CBR. Explore what links exist between physical and rehabilitation medicine and CBR and how these should evolve.

Eligible for APA credit.

**The Role of Qualitative Metasynthesis
in Evidence-Based Rehabilitation**

1:30 pm – 3:00 pm, Room: Verdun

Course Director: William Levack, PhD

Faculty: William Levack, PhD, Kathryn McPherson, PhD, Nicola Kayes, MA, Joanna Fadyl, Rebecca Gewurtz, Gerben DeJong, PhD, FACRM

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe what qualitative metasynthesis is, the key features of its methodology, and what it could offer evidence-based practice in rehabilitation settings. Provide examples of at least two recent qualitative metasyntheses and what these have contributed to research on evidence-based rehabilitation. Describe the key challenges facing qualitative metasynthesis that need to be addressed if it is to gain greater credibility as a method relevant to evidence-based rehabilitation in the future.

Eligible for APA credit.

Advances in Outcome Measures for Neurologic Disorders

1:30 pm – 3:00 pm, Room: Lachine

Course Director: Allen Heinemann, PhD, ABPP, FACRM

Faculty: Allen Heinemann, PhD, ABPP, FACRM, Noelle Carlozzi, PhD, Francois Bethoux, MD, Alan Jette, PhD, MPH, David Tulskey, PhD, Kathryn Boschen, MA, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the purpose and methods of IRT and CAT approaches to assessing persons with neurologic disorders. Discuss issues in developing unidimensional item banks. Describe opportunities to apply IRT/CAT and short form assessment for persons with neurologic disorders.

Eligible for APA credit.

Improving Interpersonal Competence in Individuals With TBI

1:30 pm – 3:00 pm, Room: LaSalle

Course Director: Barry Willer, PhD

Faculty: Barry Willer, PhD, Angelle Sander, PhD, Duncan Babbage, PhD, Allison Clark, PhD, Dawn Neumann, PhD, Margaret Struchen, PhD, Barbra Zupan, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe evidence-based interventions aimed to improve interpersonal skills in persons with TBI. Describe the interactions between specific impairments and interpersonal competence. Discuss the relationship of social competence to community integration.

Eligible for APA credit.

Break

3:00 pm – 3:30 pm, Room: Fontaine B-H

SCI-SIG Business Meeting

3:30 pm – 5:00 pm, Room: Mansfield

BI-ISIG Business Meeting

3:30 pm – 5:00 pm, Room: Westmount/Outremont

Concurrent Symposia—3:30 pm

Virtual Reality and Game Applications for Motor Rehabilitation

3:30 pm – 5:00 pm, Room: LaSalle

Course Director: Mindy Levin, PhD

Faculty: Mindy Levin, PhD, Philippe Archambault, Heidi Sveistrup, PhD, Judith Deutsch, PT, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe current and developing virtual reality and game technologies used or with potential for use in rehabilitation. Discuss the attributes of virtual reality applications that can be used to augment traditional rehabilitation approaches such as repetitive practice, individually graded exercise, ecological validity, controlled environments, partici-

pant engagement, etc. Identify facilitators and obstacles to the implementation of virtual reality applications in a clinical milieu.

Eligible for APA credit.

Research Approaches to Acute and Chronic Low Back Pain Assessment and Treatment

3:30 pm – 5:00 pm, Room: Verdun

Course Director: Christine MacDonell

Faculty: Hamilton Hall, MD, Greg McIntosh, CBI, Sally Nikolaj, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Identify the reliability and validity of specific spine care approaches that classifies low back pain in four distinct subgroups. Describe recent studies in the literature that addresses lower back pain treatment effectiveness. Describe a prognostic method for determining possible outcome.

Eligible for APA credit.

Assessing the Quality and Applicability of Systematic Reviews—A Systematic Approach

3:30 pm – 5:00 pm, Room: Lachine

Course Director: Marcel Dijkers PhD, FACRM

Faculty: Tamara Bushnik, PhD, FACRM, Marcel Dijkers, PhD, FACRM, Allen Heinemann, PhD, ABPP (Rp), FACRM, Alexander Libin, PhD, Mark Sherer, PhD, FACRM

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the importance of systematic reviews in contemporary clinical care, research and program administration. Elucidate the components of the checklist and why they are there. Implement the checklist, applying it to a published systematic review.

Eligible for APA credit.

ACRM President's Reception with Exhibitors

7:00 pm – 9:00 pm, Room: Fontaine A

Friday, October 22

Registration Open

6:45 am – 5:00 pm, Room: Foyer

Continental Breakfast

6:45 am – 8:00 am, Room: Fontaine A-H

Poster Viewing

7:00 am – 6:30 pm, Room: Fontaine B-H

Meet with authors 4:30 pm – 6:30 pm.

Breakfast Symposia—7:00 am

Development and Evaluation of Empirically-Based Interventions for Families After Adult and Adolescent Brain Injury

7:00 am – 8:00 am, Room: Lachine

Course Director: Jeffrey Kreutzer, PhD, ABPP, FACRM

Faculty: Jeffrey Kreutzer, PhD, ABPP, FACRM, Caron Gan, RN, MScN, AAMFT, Emilie Godwin, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe scholarly research relating to family needs and adjustment after adolescent and adult brain injury. Describe the empirical formulation and development of two standardized interventions, one designed for families of adolescents, the other for families of adults with brain injury. Present and discuss quantitative and qualitative evaluation methods, data derived from the interventions, analysis of findings, and implications for future research.

Eligible for APA credit.

Post-Traumatic Movement Disorders: Assessment and Management

7:00 am – 8:00 am, Room: Verdun

Faculty: Nathan Zasler, MD, FAAPMR, FAADEP, CBIST

Clinical/Research Objectives: At the conclusion, participants should be able to: Explain the classification, incidence and prevalence of movement disorders following TBI. Examine the pathoanatomic correlates of post-traumatic movement disorders. Describe the assessment methodologies and treatment options for post-traumatic movement disorders.

Eligible for APA credit.

Functional Implications of Changes in Coordination Dynamics of Walking in Neurological Disabled Individuals

7:00 am – 8:00 am, Room: Mont Royal

Course Director: Robert Wagenaar, MSc, PhD

Faculty: Robert Wagenaar, MSc, PhD, Richard van Emmerik, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe new developments in the evaluation, diagnostics and treatment of gait and postural disorders and the implications for current practice. Explain the assumptions of the theory of dynamical systems and the relevant tools for studying human movement. Describe how visual spatial function disorders in PD influence gait coordination.

Neuro-Imaging During Rehabilitation: Evaluating Changes in Stroke and TBI Patients

7:00 am – 8:00 am, Room: LaSalle

Faculty: David Alexander, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: Recognize the difference between CT and MR images. Describe the common findings seen on CT and MR imaging of TBI and stroke. Discuss the types of CNS complications seen on a rehabilitation unit post-TBI.

Eligible for APA credit.

Exhibits Open

7:00 am – 6:30 pm, Room: Fontaine A

Plenary Session

8:00 am – 9:30 am, Room: Westmount/Outremont

Bilateral Arm Movements: From Neurophysiology to Therapeutic Interventions

Course Director: Monica A. Perez, PT, PhD

Faculty: Demetris Soteropoulos, PhD, Newcastle University, Newcastle, UK; Monica Perez, PT, PhD, Department of Physical Medicine and Rehabilitation, University of Pittsburgh, Pittsburgh, PA; Steven Wolf, PT, PhD, FAPTA, FAHA, Center for Rehab Medicine, Emory University, Atlanta, GA; Andreas Luft, PhD, Centre for Neurology, Hertie-Institute for Clinical Brain Research, Department of General Neurology University of Zurich, Zurich, Switzerland

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe current experimental evidence supporting the involvement of different brain regions in the coordination of bimanual arm movement in non-human primates. Discuss specific electrophysiological markers used to assess crossed interactions occurring at the cortical and spinal cord level in humans during bilateral arm voluntary movements. Describe the evidence supporting the use of constraint-induced movement therapy and bilateral arm training to enhance upper-limb motor function in individuals with motor disorders.

Break

9:30 am – 10:00 am, Room: Fontaine A

ASNR Lectures

10:00 am – 11:30 am, Room: Westmount/Outremont

2010 Outstanding Neurorehabilitation Clinician Scientist Award

Understanding and Augmenting Motor Learning for the Benefit of Neurological Rehabilitation

Lecturer: Pablo Celnik, MD

Johns Hopkins Hospital, Baltimore, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: List three basic processes that take place during motor learning. Describe the neural substrates underlying different motor learning processes. Explain one of the main neurophysiological mechanisms associated with motor learning.

2010 Kenneth Viste, Jr., MD Memorial Lectureship

Lecturer: Alexander Dromerick, MD

National Rehabilitation Hospital; Rehabilitation Medicine and Neurology, Georgetown University School of Medicine; DC VAMC, Washington, DC

Research Roundtables

11:30 am – 12:30 pm, Room: Hampstead

Clinical/Research Objectives: At the conclusion, participants should be able to: Generate ideas for collaborative research and future course proposals. Establish formal networking groups and opportunities for continued collaboration. Discuss controversial and relevant issues in the area of rehabilitation through an informal setting.

This pre-registered event is now full.

ACRM Membership Meeting

12:45 pm – 1:45 pm, Room: Westmount/Outremont

Presidential Address by Joseph T. Giacino, PhD, FACRM

ASNR Membership Meeting

1:45 pm – 2:45 pm, Room: Westmount/Outremont

Break

2:45 pm – 3:00 pm, Room: Fontaine A-H

Paper Presentations & Deborah L. Wilkerson Award Presentation

3:00 pm – 5:00 pm, Room: Mont Royal

Clinical/Research Objectives: At the conclusion, participants should be able to: Discuss recent research on state-of-the-art trends with the neurological and rehabilitation fields as revealed in paper presentations.

2010 Deborah L. Wilkerson Award

Ronald Seel, PhD, Director, Brain Injury Research
Crawford Research Institute, Shepherd Center

Paper Presentations

Rates for Release to Return to Work and for Return to Competitive Employment in Two Catastrophically Injured Matched Populations: Evidence in Support of the Systematic Care Management (SCM) Model

Presenter: Ernest Bryant, PhD

Improving Hemiparetic Hand Function: Training With Virtual Reality Task-Based Simulations Interfaced with Adaptive Robots

Presenter: Alma Merians, PhD, PT

Amantadine Hydrochloride for Treatment of Symptoms of the Posttraumatic Confusional State (PTCS): A Randomized, Double-blind, Placebo-controlled Trial

Presenter: Stuart Yablon, MD

Are Stroke Patients Being Assessed for Rehabilitation in the Acute Hospital?

Presenter: Janet Prvu Bettger, ScD

Natural History of Recovery from Brain Injury After Prolonged Disorders of Consciousness: Outcome of Patients Admitted to Inpatient Rehabilitation With 1-4 Year Follow-Up.

Presenter: Douglas Katz, MD, FACRM

Multisite Randomized Clinical Trials for Neurorehabilitation: Lessons Learned From the International SIRROWSTrial

Presenter: Prudence Plummer-D'Amato PhD, PT

Concurrent Symposia—3:00 pm

Does Amantadine Hydrochloride Work in Promoting Recovery of Function Following Severe Brain Injury: Results of a Multicenter Prospective Randomized Controlled Trial

3:00 pm – 4:30 pm, Room: Verdun

Course Director: Joseph Giacino, PhD, FACRM

Faculty: Joseph Giacino, PhD, FACRM, John Whyte, MD, PhD, FACRM, Emilia Bagiella, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Determine the effectiveness of amantadine hydrochloride in patients with disorders of consciousness. Describe the indications and contraindications for use of amantadine hydrochloride. Specify the most common adverse effects of amantadine hydrochloride.

Eligible for APA credit.

Measuring the Quality of Rehabilitation Care: Opportunities and Challenges

3:00 pm – 4:30 pm, Room: LaSalle

Course Directors: Anne Deutsch, PhD, RN, CRRN, Gerben DeJong, PhD, FACRM

Faculty: Anne Deutsch, PhD, RN, CRRN, Gerben DeJong, PhD, FACRM, Suzanne Snyder, PT, Christopher Poulos, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe three key organizations involved in health care quality efforts. Identify two implications for medical rehabilitation practice, competition and payments. Identify three challenges to measuring the quality of rehabilitation care.

Eligible for APA credit.

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Archives of Physical Medicine & Rehabilitation,
October 2010

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**Exercise After Stroke:
Clinical Models, Cardiometabolic
Health, & Community Translation**

3:00 pm – 4:30 pm, Room: Lachine

Course Director: Richard Macko MD

Faculty: Richard Macko, MD, Charlene Hafer-Macko, MD, Mary Stuart, ScD, Michael Weinrich, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: Define key physiological and functional targets for exercise rehabilitation after stroke and their relevance to rehabilitation and cardiovascular health outcomes. Recognize the unique structural and metabolic abnormalities that contribute to poor cardiovascular fitness levels and insulin resistance after stroke, and the potential for exercise to reduce CVD and diabetes risk. Identify models of adaptive physical activity that can be implemented at the community level as a health and wellness promoting resource to stroke survivors.

Eligible for APA credit.

Networking Reception

5:30 pm – 6:30 pm, Room: La Portage

**Networking Above the 49th Parallel—
Discover Rehabilitation Research in Quebec
(CRIR-CIRRIIS-REPAR)**

Everyone welcome.

Henry B. Betts Awards Gala

7:00 pm – 9:30 pm

Offsite Location: McGill University's Faculty Club.

Ticketed Event

Saturday, October 23

Registration Open

7:00 am – 4:00 pm, Room: Foyer

Continental Breakfast & Awards

7:00 am – 8:15 am, Room: Westmount

Exhibits Open

8:30 am – 10:30 am, Room: Fontaine A

NIDRR Fellows Presentations

8:30 am – 10:30 am, Room: La Portage

Concurrent Symposia—8:30 am

The Case for Very Early Stroke Rehabilitation

8:30 am – 10:00 am, Room: LaSalle

Course Director: Randolph Marshall, MS, MD

Faculty: S. Thomas Carmichael, MD, PhD, Randolph Marshall, MS, MD, Friedhelm Hummel, MD, Ronald Lazar, PhD, John Krakauer, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the basic science and imaging evidence for neuroplasticity after stroke. Report the current evidence for efficacy of transcranial direct current stimulation and behavioral interventions for motor and language recovery. Delineate the potential risks and benefits of early rehabilitation after acute stroke.

Eligible for APA credit.

Contracture Reduction, Head to Toe

8:30 am – 10:00 am, Room: Mont Royal

Course Director: F. Buck Willis, PhD

Faculty: F. Buck Willis, PhD, Stacey Il Berner, MD Jenny Lai, MD, Ed Hernandez, OT

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the molecular aspects of contracture which are common to contracture of neural, orthopaedic or idiopathic origin. Explore protocol's ability to accomplish contracture reduction. Examine recent studies (Level of Evidence I and II) in contracture reduction to understand effective outcome measures in contracture reduction.

**Activity-Based Therapies in Spinal Cord Injury:
Clinical Focus and Evidence-Based Approach in
Four Independent Programs**

8:30 am – 10:00 am, Room: Hampstead

Course Director: Michael Jones, PhD

Faculty: Michael Jones, PhD, Candy Tefertiller, MSPT, Eric Harness, Paula Denison, PT, Giovanna Lazzeri, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the theoretical basis for activity-based therapy. Describe the treatment modalities and decision rules for tailoring modalities to participants. Describe and contrast the approaches used in four different activity-based therapy programs.

Eligible for APA credit.

**Sleep-Wake Disturbances
Following Traumatic Brain Injury.**

8:30 am – 10:00 am, Room: Cote-St-Luc

Course Director: Marie-Christine Ouellet, PhD

Faculty: Marie-Christine Ouellet, PhD, Joshua Cantor, PhD, Simon Beaulieu-Bonneau, PhD, Nadia Gosselin, PhD, Catherine Wiseman-Hakes, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Recognize and differentiate insomnia, fatigue, excessive daytime sleepiness and problems with vigilance in survivors of brain injury. Identify evidence-based tools to subjectively and objectively evaluate post-TBI sleep-

wake disturbances in their clients or research participants. Recognize the importance of treating sleep-wake disturbances and of documenting their results through research in order to counter the paucity of evidence-based interventions in this population.

Eligible for APA credit.

Break

10:00 am – 10:30 am, Room: Fontaine A

Concurrent Symposia—10:30 am

Wearable Sensors and Algorithms to Identify the Type, Quantity, and Quality of Everyday Physical Activities

10:30 am – 12:00 pm, Room: Cote-St-Luc

Course Director: Bruce Dobkin, MD

Faculty: Bruce Dobkin, MD, William Kaiser, PhD, Robert Wagenaar, MSc, PhD

Clinical/Research Objectives: At the conclusion of this session, participants should be able to: Describe how inexpensive sensor technologies can provide valuable data through new Bayesian and other machine-learning algorithms. Discuss new procedures to monitor rehabilitation interventions and outcomes in daily practice. Apply new monitoring and measurement tools to monitor and assess clinically relevant outcomes for clinical trials.

Eligible for APA credit.

Acute Rehabilitation of Persons With Disorders of Consciousness: Outcomes From Three Multi-Center Studies

10:30 am – 12:00 pm, Room: LaSalle

Course Director: Risa Nakase-Richardson, PhD

Faculty: Risa Nakase-Richardson, PhD, Joseph Giacino, PhD, FACRM, Marissa McCarthy, MD, Stuart Yablon, MD, John Whyte, MD, PhD, FACRM, James Kelly, MD, Adam Seidner, MD, MPH

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the prevalence of recovery of conscious behaviors across three multi-system studies. List functional outcome measures sensitive to change in persons with disorders of consciousness in multi-system studies. List socio-economic outcomes of persons in acute neurorehabilitation with disorders of consciousness.

Eligible for APA credit.

Executive Plus, a Comprehensive Neurorehabilitation Program: Theoretical Foundations and Clinical Implementation

10:30 am – 12:00 pm, Room: Mont Royal

Course Director: Wayne Gordon, PhD, ABPP/Cn, FACRM

Faculty: Wayne Gordon, PhD, ABPP/Cn, FACRM, Teresa Ashman, PhD, Theodore Tsoulosides, PhD, Kristen Dams-O'Connor, PhD, Joshua Cantor, PhD

Clinical/Research Objectives: At the conclusion, participants

should be able to: Describe the theoretical and conceptual foundations that underlie the core components of CNP. Discuss implementation of core components/techniques of CNP in individual and group settings and related challenges. Describe primary findings and knowledge gained from a recent RCT on CNP and identify directions for future exploration.

Eligible for APA credit.

Trunk Control and Its Implications on Spinal Cord Injury Rehabilitation

10:30 am – 12:00 pm, Room: Hampstead

Course Director: Milos Popovic, PhD

Faculty: Milos Popovic, PhD, Rachid Aissaoui, PhD, Sylvie Nadeau, PhD, Molly Verrier, MHSC, Gagnon Dany, PT, PhD, Richard Preuss, PhD, Cyril Duclos, PhD, Félix Chénier, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Discuss latest findings pertaining to kinematic and dynamic behavior of the trunk and trunk muscles during: a) quiet and perturbed sitting, b) reaching, c) transfers, and d) wheeling. Discuss effects of trunk impairments on: a) quiet and perturbed sitting, b) reaching, c) transfers, and d) wheeling. Present state of the art experimental setups and techniques for measuring and evaluating trunk postural control.

J. Stanley Coulter Lecture Lunch

Ticketed event.

Fulfilling the Promise: Supporting Participation in Daily Life

12:30 pm – 2:30 pm, Room: Vardun/Lachine

Coulter Lecturer: Carolyn Baum, PhD, OTR/L, FAOTA, Occupational Therapy and Neurology, Elias Michael Washington University School of Medicine, St. Louis, MO

Clinical/Research Objectives: At the conclusion, participants should be able to: Discuss rehabilitation science as the link between biomedical science and population health. Describe the need to expand rehabilitation outcomes from measures of function to measures of participation in home, work and community life. Discuss the knowledge generated by rehabilitation scientists to improve the daily lives of people with chronic conditions and impairments that can result in disability without comprehensive rehabilitation.

Eligible for APA credit.

SAVE THE DATE

ASNR Satellite Meeting at Society for Neuroscience Meeting

The New Science of Brain Repair and Rehabilitation

Friday, November 12, 8:30 am – 1:00 pm

Manchester Grand Hyatt, San Diego, CA

Register at www.asnr.com

Concurrent Symposia—2:30 pm

Clinical Considerations in the Diagnosis and Treatment of Major Depression After Moderate to Severe TBI

2:30 pm – 4:00 pm, Room: Hampstead

Course Director: Ronald Seel, PhD

Faculty: Ronald Seel, PhD, Stephen Macciocchi, PhD, ABPP, Darryl Kaelin, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: Identify diagnostic features and risk factors for major depression following TBI. Make informed differential diagnosis of major depression and other common psychiatric and cognitive disorders following TBI. Acquire up to date knowledge on evidence basis for medication, behavioral, and cognitive therapies for major depression following TBI.

Eligible for APA credit.

The Brain Recovery Core: Building a Model System for Organized Stroke Rehabilitation

2:30 pm – 4:00 pm, Room: LaSalle

Course Director: Catherine Lang, PT, PhD

Faculty: Catherine Lang, PT, PhD, Robert Fucetola, PhD, Lisa Connor, PhD, Clayton Karr, MS, OTR/L

Clinical/Research Objectives: At the conclusion, participants should be able to: Discuss the fragmentation of rehabilitation services across the continuum of care. Evaluate clinical measurement and information sharing needs for rehabilitation services delivered at various time points along the continuum of care. Describe the benefits and challenges of implementing systematic assessments across institutions.

Eligible for APA credit.

The Need for Early and Accurate Diagnosis of Mild Traumatic Brain Injury and Advances in Behavioral and Neuroimaging Diagnostic Research

2:30 pm – 4:00 pm, Room: Cote-St-Luc

Course Directors: Robin Green, PhD, CPsych, Bradford McFadyen, PhD

Faculty: Robin Green, PhD, CPsych, Mary-Kay Messier, Alain Ptito, PhD, Philippe Fait, MSc, Michelle Keightley, PhD, Bradford McFadyen, PhD, Isabelle Gagnon, PhD

Clinical/Research Objectives: At the conclusion, participants should be able to: Articulate the clinical problem. Describe recent advances in behavioral research. Describe recent advances in neuroimaging research.

Eligible for APA credit.

Application of Best Evidence in Acquired Brain Injuries. The ERABI: A Research Synthesis of Interventions for Moderate to Severe Acquired (Traumatic) Brain Injuries: 5th Edition

2:30 pm – 4:00 pm, Room: Mont Royal

Course Director: Robert Teasell, MD, FRCPC

Faculty: Robert Teasell, MD, FRCPC, Mark Bayley, MD, Nora Cullen, MD, MS, FRCPC, Shawn Marshall, MD

Clinical/Research Objectives: At the conclusion, participants should be able to: Describe the evidence-base for assessments and interventions used in the rehabilitation of acquired brain injuries. Utilize a web-based research synthesis of assessments and interventions used in the rehabilitation of acquired brain injuries. Apply best evidence in the management of acquired brain injuries clinical simulations.

Eligible for APA credit.

ACRM Board of Governors Meeting

4:00 pm – 6:45 pm, Room: Mansfield

Sunday, October 24

ACRM Board of Governors Meeting

8:00 am – 12:00 pm, Room: Mansfield



Save the Date:
April 28 – 30, 2011
Westin Chicago River North
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ACRM
Mid Year
Meeting

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Accreditation

ACCME

Accreditation Statement: The activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Indiana University School of Medicine, the American Congress of Rehabilitation Medicine (ACRM) and the American Society for Neurorehabilitation (ASNR). The Indiana University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement: The Indiana University School of Medicine designates this educational activity for a maximum of 25.75 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Faculty Disclosure Statement: In accordance with the Accreditation Council for Continuing Medical Education (ACCME) Standard for Commercial Support, educational programs sponsored by Indiana University School of Medicine (IUSM) must demonstrate balance, independent, objectivity and scientific rigor. All faculty, authors, editors, and planning committee members participating in an IUSM-sponsored activity are required to disclose any relevant financial interest or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services that are discussed in an educational activity.

Note: While it offers the CME credit hours noted above, the activity is not intended to provide extensive training or certification in the field.

AOTA

This conference is offered for up to 2.5 AOTA CEUs. The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA.



APA

Division 22: Rehabilitation Psychology is approved by the American Psychological Association to sponsor continuing education for psychologists. Division 22: Rehabilitation Psychology maintains responsibility for this program and its content.

Programs eligible for APA credit are noted in course descriptions.

CEU

Certificates will be awarded to those participants who attend the conference, sign the session rosters, and complete an evaluation form. The number of continuing education units (CEUs) awarded will be based upon the number of conference hours attended and the requirements of the specific accrediting organizations.



This course is offered for 2.5 ASHA CEUs (Intermediate level, Professional area).

Applications for CEUs are being made to the following accreditation organizations:

Commission for Case Manager Certification

Certified Rehabilitation Counselor Certification

Certification of Disability Management Specialists Commission

IPTA

The Illinois Chapter Continuing Education Committee has certified that this course meets the criteria for approval of Continuing Education offerings established by The Illinois Physical Therapy Association

ACRM-ASNR 2010 Program Committee

Co-Chairs

Virginia Mills, MS, PT, CCM for ACRM
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Ron Seel, PhD
Robert Wagenaar, MD
Sandra McCombe Waller, PT, PhD
Michael Weinrich, MD
Barbara Weissman, MD

Faculty

Rachid Aissaoui, PhD, Chaire Industrielle CRSNG sur les Aides Techniques la Posture, Department de Génie Mécanique, Ecole Polytechnique de Montreal, Montreal, QC, Canada

David Alexander, MD, UCLA, Santa Monica, CA

Philippe Archambault, Assistant Professor, School of Physical and Occupational Therapy, McGill University, Montreal, QC, Canada

Teresa Ashman, PhD, Associate Director of Psychology Research, Rusk Institute of Rehabilitation Medicine NYU, Langone Medical Center, New York, NY

Duncan Babbage, PhD, Director, Psychology Clinic at Wellington, Senior Lecturer, Massey University, Auckland, New Zealand

Emilia Bagiella, PhD, Associate Professor of Clinical Biostatistics, Mailman School of Public Health, Columbia University, New York, NY

Carolyn Baum, PhD, OTR/L, FAOTA, Professor, Occupational Therapy and Neurology, Elias Michael Washington University School of Medicine, St. Louis, MO

Mark Bayley, MD, Faculty of Medicine, University of Toronto, Toronto Rehab Institute, Toronto, ON, Canada

Simon Beaulieu-Bonneau, PhD, Ecole de Psychologie, Université Laval, QC, Canada

Kathleen Bell, MD, Department of Physical Medicine and Rehabilitation, University of Washington Medical Center, Seattle, WA

Stacey H. Berner, MD, Advanced Centers for Orthopaedic Surgery & Sports Medicine, Owings Mills, MD

Janet Prvu Bettger, ScD, University of Pennsylvania, Philadelphia, PA

Francois Bethoux, MD, Mellen Center, Physical Medicine and Rehabilitation, Cleveland Clinic, Cleveland, OH

Richard Bohannon, PT, DPT, EdD, Professor, Department of Physical Therapy, University of Connecticut, Storrs, CT

Kathryn Boschen, PhD, MA, Research Department, University of Toronto, Toronto, ON, Canada

Sarah Bowen, PhD, Associate Professor, School of Public Health, Department of Public Health Services, University of Edmonton, AB, Canada

JoAnn Brockway, PhD, Clinical Associate Professor, Rehabilitation Medicine, University of Washington; Attending Psychologist, Comprehensive Outpatient Rehabilitation Program, Harborview Medical Center, Seattle, WA

Ernest Bryant, PhD, Paradigm Management Services, LLC, Research/Medical Affairs, Concord, CA

Tamara Bushnik, PhD, FACRM, Director of Research, Associate Professor Rusk Institute for Rehabilitation Medicine, NYU Langone Medical Center, New York, NY

Joshua Cantor, PhD, Associate Professor, Department of Rehabilitation Medicine, Mount Sinai School of Medicine; Senior Researcher, Rehabilitation Research and Training Center on TBI Interventions, The New York TBI Model System and Mount Sinai Injury Control Research Center, New York, NY

Noelle Carlozzi, PhD, Assistant Professor, Research Scientist, Center for Rehabilitation Outcomes and Assessment Research, Department of Physical Medicine and Rehabilitation, University of Michigan

S. Thomas Carmichael, MD, PhD, Associate Professor, Department of Neurology, Geffen School of Medicine at UCLA, Los Angeles, CA

Pablo Celnik, MD, Johns Hopkins Hospital, Baltimore, MD

Félix Chénier, PhD, Université du Québec, Montreal, QC, Canada

Allison Clark, PhD, Brain Injury Research Center, Houston, TX

Lisa Connor, PhD, Rehabilitation Institute of Saint Louis, St. Louis, MO

Susan Conroy, DSc, PT, VA Maryland Healthcare System, Baltimore, MD

Daniel Corcos, PhD, Director, Motor Control and Learning Program in the School of Kinesiology and Professor of Movement Sciences, Neurology, Physical Therapy, and Bioengineering, University of Illinois, Chicago, IL

Nora Cullen, MD, MS, FRCPC, Faculty of Medicine, University of Toronto, Toronto Rehab Institute, Toronto, ON, Canada

Kristen Dams-O'Connor, PhD, Post-Doctorate Fellow, Mount Sinai School of Medicine, New York, NY

Gagnon Dany, PT, PhD, Rehab Engineering Lab, Lyndhurst Center, Université de Montréal, Montreal Rehabilitation Institute, Montreal, QC, Canada

Gerben DeJong, PhD, FACRM, Director, Center for Post-acute Studies, Senior Fellow, National Rehabilitation Hospital, Washington, DC

Paula Denison, PT, Rehabilitation Institute of Michigan, Detroit, MI

Anne Deutsch, RN, PhD, CRRN, Clinical Research Scientist, Center for Rehabilitation Outcomes Research, Rehabilitation Institute of Chicago, Chicago, IL

Judith Deutsch, PT, PhD, Professor and Director Rivers Lab, Department of Rehabilitation and Movement Sciences, UMDNJ SHRP, Newark, NJ

Marcel Dijkers, PhD, FACRM, Research Professor, Department of Rehabilitation Medicine, Mount Sinai School of Medicine, New York, NY

Bruce Dobkin, MD, Department of Neurology, University of California LA, Los Angeles, CA

Alexander Dromerick, MD, Associate Medical Director, National Rehabilitation Hospital; Professor, Rehabilitation Medicine and Neurology, Vice-Chair and Chief of Rehabilitation, Georgetown University School of Medicine; Research Scientist, DC VAMC, Washington, DC

Cyril Duclos, PhD, Center for Interdisciplinary Research in Rehabilitation of Greater Montreal, Montreal Rehabilitation Institute, Montreal, QC, Canada

Linda Ehrlich-Jones, PhD, RN, Clinical Research Scientist, CROR, Rehabilitation Institute of Chicago, Chicago, IL

Joanna Fadyl, Research Officer, Health Sciences, Auckland University of Technology, Auckland, New Zealand

Philippe Fait, Université Laval and Centre Interdisciplinaire de Recherche en Readaptation et Intégration Sociale, QC, Canada

Robert Fucetola, PhD, Washington University, St. Louis, MO

Isabelle Gagnon, PhD, McGill University, Montreal Children's Hospital, Montreal, QC, Canada

Caron Gan, RN, MScN, AAMFT, Bloorview Kids Rehabilitation, Toronto, ON, Canada

Richard Gershon, PhD, Vice Chairman, Department of Medical Social Sciences, Department of Physical Medicine & Rehabilitation, Northwestern University, Feinberg School of Medicine, Chicago, IL

Rebecca Gewurtz, McMaster University, Hamilton, ON, Canada

Joseph Giacino, PhD, FACRM, Director of Rehabilitation Neuropsychology, Spaulding Rehabilitation Hospital, Boston, MA

Emilie Godwin, PhD, Virginia Commonwealth University, Richmond, VA

Wayne Gordon, PhD, ABPP/Cn, FACRM, Jack Nash Professor & Associate Director, Department of Rehabilitation Medicine, Chief, Rehabilitation Psychology and Neuropsychology Service, Mount Sinai School of Medicine, New York, NY

Nadia Gosselin, PhD, Centre d'Études Avancées en Médecine du Sommeil, Hôpital du Sacre-Cœur de Montréal, Montréal, QC, Canada

Dave Gray, PhD, Associate Professor, Occupational Therapy and Neurology, Washington University School of Medicine, St. Louis, MO

Robin Green, PhD, CPsych, Toronto Rehabilitation Institute, University of Toronto, Toronto, ON, Canada

Charlene Hafer-Macko, MD, Assistant Professor, Department of Neurology, University of Maryland School of Medicine; Baltimore Geriatric Research, Education, and Clinical Center, Department of Veterans Affairs Maryland Health Care System, Baltimore, MD

Hamilton Hall, MD, Professor of Medicine, University of Toronto, Toronto, ON, Canada

Eric Harness, Director of Research and Development, Research of SCI Recovery, Carlsbad, CA

Tessa Hart, PhD, FACRM, Institute Scientist, Moss Rehabilitation Research Institute, Research Associate Professor, Department of Rehabilitation Medicine, Jefferson Medical College, Elkins Park, PA

Allen Heinemann, PhD, ABPP (RP), FACRM, Professor, Physical Medicine and Rehabilitation, Feinberg School of Medicine, Northwestern University; Director, Center for Rehabilitation Outcomes Research, Rehabilitation Institute of Chicago, Chicago, IL

Ed Hernandez, OT, Dynasplint Systems, Neural Division, Houston, TX

Joe Hidler, PhD, National Rehabilitation Hospital, Washington DC

Holly Hollingsworth, PhD, Statistician, Program in Occupational Therapy, Washington University School of Medicine, St. Louis, MO

T. George Hornby, PhD, PT, Research Assistant Professor, Feinberg School of Medicine, Clinical Research Scientist, Rehabilitation Institute of Chicago, Chicago, IL

Friedhelm Hummel, MD, University Medical Center, Hamburg-Eppendorf, Hamburg, Germany

Hermano Igo Krebs, PhD, Principal Research Scientist and Lecturer, Massachusetts Institute of Technology, Cambridge, MA

Alan Jette, PhD, MPH, Director, Health and Disability Research Institute, Boston University, Boston, MA

Michael Jones, PhD, Vice President, Research and Technology, Director, Virginia C. Crawford Research Institute, Shepherd Center, Atlanta, GA

Darryl Kaelin, MD, Medical Director and Medical Research Director, Acquired Brain Injury, Co-Investigator, Acquired Brain Injury, Shepherd Center, Atlanta, GA

William Kaiser, PhD, Faculty Electrical Engineering Department, University of California at Los Angeles, Los Angeles, CA

Clayton Karr, MS, OTR/L, Director of Clinical Services, The Rehabilitation Institute of St. Louis, St. Louis, MO

Douglas Katz, MD, Boston University School of Medicine, Neurology, Braintree Rehabilitation Hospital, Braintree, MA

Nicola Kayes, MA, Science, Senior Rehabilitation Research Officer, AUT University, Auckland, New Zealand

Michelle Keightley, PhD, Assistant Professor, Department of Occupational Science and Occupational Therapy, University of Toronto, Toronto, ON, Canada

James Kelly, MD, National Intrepid Center of Excellence, Bethesda, MD

John Krakauer, MD, Associate Professor of Neurology and Co-Director, Motor Performance Lab at the Neurological Institute, Columbia University College of Physicians and Surgeons, New York, NY

Jeffrey Kreutzer, PhD, ABPP, FACRM, Professor and Director of the Rehabilitation Psychology and Neuropsychology Service, Department of Physical Medicine and Rehabilitation, VCU School of Medicine, Richmond, VA

Angela Kwok, MSWSR, BC Centre for Ability, Vancouver, BC, Canada

Jenny Lai, MD, The Methodist Hospital Research Institute, Houston, TX

Christianne Lane, PhD, Biostatistician, Keck School of Medicine, University of Southern California, Los Angeles, CA

Catherine Lang, PT, PhD, Washington University, St. Louis, MO

Ronald Lazar, PhD, Professor of Clinical Neuropsychology in Neurology and Neurological Surgery, Director, Levine Cerebral Localization Lab, Division of Stroke, Columbia University, NY

Giovanna Lazzeri, MD, Centro Giusti Private Institute of Physical Medicine & Rehabilitation, Firenze, Italy

William Levack, PhD, University of Otago, Wellington, New Zealand

Mindy Levin, PhD, PT, Professor of Physical and Occupational Therapy, McGill University, Center for Interdisciplinary Research in Rehabilitation, Montreal, QC, Canada

Alexander Libin, PhD, Training Director, RRTC on SCI, National Rehabilitation Hospital at the MedStar Research Institute, Assistant Professor, Department of Rehabilitation Medicine, Georgetown University Medical Center, Washington, DC

Albert Lo, MD, PhD, CPH, Assistant Professor, Neurology, Bio Med Neurology, Brown University; Staff Neurologist, Providence VA Medical Center, Providence, RI

Andreas Luft, PhD, Centre for Neurology, Hertie-Institute for Clinical Brain Research, Department of General Neurology University of Zurich, Zurich, Switzerland

Christine MacDonell, Managing Director, Medical Rehabilitation and International Aging Services/Medical Rehabilitation, Washington, DC

Stephen Macciocchi, PhD, ABPP, Director, Rehabilitation Psychology and Neuropsychology, Shepherd Center, Atlanta, GA

Richard Macko, MD, Director, Maryland Exercise and Robotics Center of Excellence, Department of Veterans Affairs; Professor of Neurology, University of Maryland, Baltimore, MD

Susan Magasi, PhD, Research Scientist, Center for Outcomes, Research, and Education, Northwestern University, Evanston, IL

James Malec, PhD, ABPP-Cn, Rp, FACRM, Research Director, Rehabilitation Hospital of Indiana, Adjunct Professor of Physical Medicine and Rehabilitation, School of Medicine, Indiana University, Indianapolis, IN

Victor Mark, MD, Associate Professor, Department of Physical Medicine and Rehabilitation, University of Alabama at Birmingham, Birmingham, AL

Shawn Marshall, MD, Associate Professor, Ottawa Hospital of Research, Ottawa Hospital Rehab Centre, Faculty of Medicine, The University of Ottawa, Ottawa, ON, Canada

Randolph Marshall, MS, MD, Professor of Clinical Neurology, Columbia University, New York, NY

Joelle Mast, PhD, MD, CMO, Blythedale Children's Hospital, Blythedale, New York, NY

Marissa McCarthy, MD, VA Medical Center Physical Medicine & Rehabilitation, University of South Florida, Tampa, FL

Bradford McFadyen, PhD, Université Laval and Centre Interdisciplinaire de Recherche en Readaptation et Integration Sociale, Montreal, QC, Canada

Greg McIntosh, CBI, Health Group Research Department, Toronto, ON, Canada

Kathryn McPherson, PhD, AUT University, Auckland, New Zealand

Alma Merians, PhD, PT, Rehabilitation and Movement Science, University of Medicine and Dentistry of New Jersey, School of Health Professions, Newark, NJ

Mary-Kay Messier, Cascade Sports, Greenwich, CT

Theodore Milner, PhD, Chair, Department of Kinesiology and Physical Education, Department of Biomedical Engineering, McGill University, Montreal, QC, Canada

Sylvie Nadeau, PhD, Faculté de Médecine, École de réadaptation, CRIR - Institut de réadaptation Gingras-Lindsay de Montréal, Montréal, QC, Canada

Risa Nakase-Richardson, PhD, James A. Haley Veterans Hospital, Tampa, FL

Monica Nelsen, DPT, Program Manager, Division of Biokinisiology & Physical Therapy, University of Southern California, Los Angeles, CA

Dawn Neumann, PhD, Department of Physical Medicine & Rehabilitation, Carolinas Rehab, Charlotte, NC

Sally Nikolaj, PhD, President, Nikolaj Consulting, Edmonton, AB, Canada

Alana Officer, Coordinator, Disability and Rehabilitation, World Health Organization (WHO), Geneva, Switzerland

Marie-Christine Ouellet, PhD, Centre Interdisciplinaire de recherche en Readaptation et Integration Sociale, Ecole de Psychologie Univer Laval, QC, Canada

Monica Perez, PT, PhD, Assistant Professor, Department of Physical Medicine and Rehabilitation, University of Pittsburgh, Pittsburgh, PA

Prudence Plummer-D'Amato, PhD, PT, Northeastern University, Physical Therapy, Boston, MA

Milos Popovic, PhD, MSc, MASc, Scientist, Toronto Rehab, Associate Professor, Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, ON, Canada

Christopher Poulos, MD, Senior Staff Specialist, Port Kembla Hospital, Warrawong, New South Wales, Australia

Richard Preuss, PhD, MSc, Assistant Professor, McGill University, Montreal, QC, Canada

Alain Ptito, PhD, Montreal Neurological Institute & McGill University, Montreal, QC, Canada

Michael Reding, MD, Director, Stroke Rehabilitation Program, Burke Rehabilitation Center, White Plains, NY; Associate Professor, Neurology, Weill Cornell Medical College, New York, NY

Lorraine Riche, BMR, PT, Senior Director, Inova Health Care, Fairfax, VA

Rose Marie Rine, PT, PhD, Director VBGL, University of North Florida, Jacksonville, FL

Angelle Sander, PhD, Assistant Professor, Department of Physical Medicine and Rehabilitation, The Institute for Rehabilitation and Research, Baylor College of Medicine, Houston, TX

Ronald Seel, PhD, Director, Brain Injury Research, Crawford Research Institute, Shepherd Center, Atlanta, GA

Adam Seidner, MD, MPH, National Medical Director, Travelers Insurance, Hartford, CT

Mark Sherer, PhD, ABPP-CN, FACRM, Director of Research and Neuropsychology, TIRR Memorial Hermann; Clinical Professor, Department of Physical Medicine and Rehabilitation, Baylor College of Medicine, Houston, TX

Suzanne Snyder, PT, Carolinas Rehabilitation, Charlotte, NC

Demetris Soteropoulos, PhD, Research Associate, Newcastle University, Newcastle, UK

Margaret Struchen, PhD, Assistant Professor, Department of Physical Medicine and Rehabilitation, Baylor College of Medicine, Houston, TX

Mary Stuart, ScD, University of Maryland, Veterans Affairs of Maryland, Health Care System, Baltimore, MD

Michael Sullivan, PhD, Professor, Department of Psychology, McGill University, Montreal, QC, Canada

Heidi Sveistrup, PhD, MA, BeD, Professor of Rehabilitation Sciences, University of Ottawa, Ottawa, ON, Canada

Robert Teasell, MD, FRCPC, Medical Director, Stroke Rehab Program, Lawson Health Research Institute, Department of Physical Medicine & Rehabilitation, Schulich School of Medicine, The University of Western Ontario, London, ON, Canada

Candy Tefertiller, MSPT, Clinical Coordinator, Beyond Therapy, Shepherd Center, Atlanta, GA

Lance Trexler, PhD, HSPP, Program Director, Neurobehavioral Services, Rehabilitation Hospital of Indiana, Indianapolis, IN

Theodore Tsaousides, PhD, Assistant Professor, Rehabilitation Medicine, Mt. Sinai School of Medicine, New York, NY

David Tulskey, PhD, Director of Research, Director of the Center for Rehabilitation Outcomes and Assessment Research, Department of Physical Medicine and Rehabilitation, University of Michigan Medical School

Richard van Emmerik, PhD, Amherst College, Boston, MA

Molly Verrier, MHSC, Associate Professor, Department of Rehabilitation, University of Toronto, Toronto Rehabilitation Institute, Toronto, ON, Canada

Robert Wagenaar, MSc, PhD, Department of Physical Therapy/Athletic Training, Boston University, Boston, MA

Michael Weinrich, MD, National Center for Medical Rehabilitation Research, NICHD/NIH, Bethesda, MD

John Whyte, MD, PhD, FACRM, Director, Moss Rehabilitation Research Institute Professor, Department of Rehabilitation Medicine, Thomas Jefferson University, Philadelphia, PA

Barry Willer, PhD, Professor, Psychiatry, Rehabilitation Sciences, University at Buffalo, Buffalo, NY

F. Buck Willis, PhD, University of Phoenix, Axia College and Dynasplint Systems, San Marcos, TX

Carolee Winstein, PhD, Professor, Biokinesiology and Physical Therapy, Associate Professor of Neurology, Director, Motor Behavior and Neurorehabilitation Laboratory, University of Southern California, Los Angeles, CA

Catherine Wiseman-Hakes, PhD, Graduate Department of Rehabilitation Science, University of Toronto, Toronto, ON, Canada

George Wittenberg, MD, PhD, Staff Physician, GRECC, Deputy Director, VA Maryland Exercise & Robotics Center of Excellence; Associate Professor, University of Maryland, Baltimore, MD

Steven Wolf, PT, PhD, FAPTA, FAHA, Center for Rehab Medicine, Emory University, Atlanta, GA

Stuart Yablon, MD, Baylor Institute for Rehabilitation, Physical Medicine and Rehabilitation, Houston, TX

Stacieann C. Yuhasz, PhD, Editor, Journal of Rehabilitation Research and Development, Baltimore, MD

Jeanne Zanca, PhD, MPT, Assistant Professor, Department of Rehabilitation Medicine, Mount Sinai School of Medicine, New York, NY

Nathan Zasler, MD, FAAPM&R, FAADP, CBIST, CEO & Medical Director, Concussion Care Centre of Virginia, Ltd.; CEO & Medical Director, Tree of Life Services, Inc, Henrico, VA

Barbra Zupan, PhD, Associate Professeur, Brock University, St. Catherine's, Canada

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ORAL PRESENTATIONS

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Rates for Release to Return to Work and for Return to Competitive Employment in 2 Catastrophically Injured Matched Populations: Evidence in Support of the Systematic Care Management Model.

Earnest Bryant (Paradigm Management Services, Concord, CA), Nathan Cope, Chris Anderson.

Key Words: Rehabilitation; Workers' Compensation.

Article 2

Improving Hemiparetic Hand Function: Training With Virtual Reality Task-Based Simulations Interfaced With Adaptive Robots.

A.S. Merians (University of Medicine and Dentistry of New Jersey, Newark, NJ, Gerard Fluett, Qinyin Qiu, Soha Saleh, Ian LaFond, Sergei Adamovich.

Key Words: Rehabilitation; Robotics.

Article 3

Amantadine Hydrochloride for Treatment of Symptoms of the Posttraumatic Confusional State: A Randomized, Double-Blind, Placebo-Controlled Trial.

Stuart Yablon (Department of Physical Medicine and Rehabilitation, Baylor Institute for Rehabilitation, Dallas, TX), Mark Sherer, Risa Nakase-Richardson, Nick Todd.

Key Words: Brain injuries; Clinical trial [publication type]; Rehabilitation.

Article 4

Are Stroke Patients Being Assessed for Rehabilitation in the Acute Hospital?

J. Prvu Bettger (University of Pennsylvania, Philadelphia, PA), J. Stein, Z. Magdon-Ismail.

Key Words: Evidence-based practice; Quality indicators, health care; Rehabilitation; Stroke.

Article 5

Natural History of Recovery From Brain Injury After Prolonged Disorders of Consciousness: Outcome of Patients Admitted to Inpatient Rehabilitation With 1 to 4 Year Follow-Up.

Douglas Katz (Boston University School of Medicine, Boston, MA), Meg Polyak, Daniel Coughlan, Nicholas Meline, Alexis Roche.

Key Words: Persistent vegetative state; Rehabilitation.

Article 6

Multisite Randomized Controlled Trials for Neurorehabilitation: Lessons Learned From the International SIRROWS Trial.

Prudence Plummer-D'Amato (Northeastern University, Boston, MA), Bruce Dobkin, SIRROWS Group.

Key Words: Gait; Rehabilitation; Stroke.

POSTER PRESENTATIONS

TRAUMATIC BRAIN INJURY

Poster 1

Social Inclusion of Persons With Moderate Head Injury: The Points of View of Adolescents With Brain Injury, Their Parents and Professionals.

Jerome Gauvin Lepag (Faculty of Nursing, University of Montreal, Montreal, QC, Canada), Helene Lefebvre.

Key Words: Adolescent; Brain injuries; Perceptions; Qualitative research; Rehabilitation.

Poster 2

A Preliminary Model for Posttraumatic Brain Injury Depression.

James Malec, (Rehabilitation Hospital of Indiana, Indianapolis, IN), Allen Brown, Anne Moessner, Timothy Stump, Patrick Monahan.

Key Words: Brain injuries; Depression; Models, statistical; Rehabilitation.

Poster 3

Effectiveness of Community-Based Rehabilitation After Traumatic Brain Injury for 489 Program Completers Compared to Those Precipitously Discharged.

Irwin Altman (Gentiva Rehab Without Walls, Phoenix, AZ), Shannon Swick, Devan Parrot, James Malec.

Key Words: Brain Injuries; Rehabilitation.

Poster 4

Comparison of the Russell and Mississippi Posttraumatic Amnesia Classification Intervals in Predicting 1-Year Productivity: An Analysis of the Traumatic Brain Injury Model System National Database.

Risa Nakase-Richardson (James A. Haley Veterans Hospital, Tampa, FL), Mark Sherer, Ronald Seel, Tessa Hart, Robin Hanks, Juan Carlos Arango-Lasprilla, Stuart Yablon, Angelle Sander, William Walkerm, Miranda Grote, John Kittleson, Flora Hammond.

Key Words: Brain injuries; Injury severity score; Outcome assessment (health care); Rehabilitation.

Poster 5

Cognitive Correlates With Functional Outcome After Anoxic Brain Injury: A Case-Controlled Comparison With Traumatic Brain Injury.

Nora Cullen (Toronto Rehabilitation Institute, Toronto, ON, Canada), Karen Weisz.

Key Words: Brain injuries; Hypoxia, brain; Rehabilitation.

Poster 6

Predicting Autonomy With Expression 1 Year After Severe Brain Injury.

Theresa Pape (Department of Veterans Affairs, Chicago, IL), Yong Wei, Bridget Smith, Ann Guernon, Charlene Tang, Sandra Lundgren, Linda Picon, Melanie Blahnik, Katherine Kieffer, Sarah Schettler, Michelle Peterson, Vijaya Patil, Michael Hoffman, David Demarest.

Key Words: Coma; Communication; Persistent vegetative state; Prognosis; Rehabilitation.

Poster 7

Use of Functional Near Infrared Spectroscopy to Assess Changes in Prefrontal Activation Associated With Recovery of Response Inhibition Following Traumatic Brain Injury.

Patrick Plenger (Pate Rehabilitation, Dallas, TX), Jana Downum, Karen Kowalske.

Key Words: Brain injuries; Rehabilitation.

Poster 8

Personalized Accompaniment for Community Integration for People With a Traumatic Brain Injury in Postrehabilitation.

Helene Lafebvre (Nursing Faculty, Montreal University, Montreal, Quebec, Canada), Marie-Josée Levert, Isabelle Gelinas, Claire Croteau, Guylaine leDorze, Carolina Bottari, Michelle McKerrall.

Key Words: Brain injuries; Rehabilitation.

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A Systematic Review of Reviews to Evaluate the Evidence Supporting Interventions for People With Traumatic Brain Injury.

Pat Brown (University of Washington, Seattle, WA), Mark Harmiss, Katherine Schomer, Kurt Johnson.

Key Words: Brain injuries; Rehabilitation; Review [publication type].

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Usefulness of Conventional Severity Classification in Determining Objective and Subjective Traumatic Brain Injury-Related Symptoms Many Years Postinjury.

Kristen Dams-O'Connor (Mount Sinai School of Medicine, New York, NY), Chari Hirshon, Lisa Spielman, Joshua Cantor, Wayne Gordon.

Key Words: Brain injuries; Rehabilitation outcome; Rehabilitation.

Poster 11

Developing a Guideline for Vocational Evaluation Following Traumatic Brain Injury: The Systematic Review.

Mary Stergiou-Kita (University of Toronto, Toronto, ON, Canada), Deidre Dawson, Susan Rappolt, Dorcas Beaton.

Key Words: Brain injuries; Employment; Rehabilitation.

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Psychosocial and Emotional Experience Among Traumatic Brain Injury Litigants.

Matsuzawa Yuka (Mount Sinai School of Medicine, New York, NY), Joshua Cantor, Theodore Tsoulosides, Yelena Goldin-Lauretta, Kristin Dams-O'Connor, Lisa Spielman.

Key Words: Brain injuries; Rehabilitation.

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Strategies for Identifying Factors Predicting Participant Attrition and Wave Nonresponse in the Traumatic Brain Injury Model Systems Program.

Jason Krellman (Mount Sinai School of Medicine, New York, NY), Lisa Spielman, Theodore Tsoulosides, Joshua Cantor.

Key Words: Patient Dropouts; Rehabilitation.

Poster 14

Amantadine Hydrochloride for Treatment of Symptoms of the Posttraumatic Confusional State: A Randomized, Double-Blind, Placebo-Controlled Trial.

Stuart Yablon (Department of Physical Medicine and Rehabilitation, Baylor Institute for Rehabilitation, Dallas, TX), Mark Sherer, Risa Nakase-Richardson, Nick Todd.

Key Words: Brain injuries; Clinical trial [publication type]; Rehabilitation.

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Factors Related to Community Integration Following Traumatic Brain Injury Rehabilitation.

Kim Hwan (University of Toronto, Toronto, ON, Canada), Angela Colantonio, Mark Bayley, Deirdre Dawson.

Key Words: Brain injuries; Rehabilitation.

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What Do Practicing Speech-Language Pathologists Know About Minimally Conscious State: Results of a Pilot Survey.

Leslie Johnson (University of North Carolina at Greensboro, Greensboro, NC), Kristine Lundgren, Robert Mayo.

Key Words: Persistent vegetative state; Rehabilitation.

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Treatment of Affective Disorders and Challenging Behavior Following Brain Injury.

Robert Teasell (Schulich School of Medicine, The University of Western Ontario, London, ON, Canada), Jo-Anne Aubut, Laura Rees, Shawn Marshall, Robert van Reekum, Margaret Weiser, Cheryl Hartridge, Mark Bayley, Nora Cullen.

Key Words: Aggression; Brain injuries; Rehabilitation.

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Application of a Qualitative Methodology to Rate Pre- and Posttraumatic Brain Injury Employment.

Svetlana Serova (Mount Sinai School of Medicine, New York, NY), Lisa Spielman, Meghan Beier, Eileen Farrell, Michelle Lent, Joshua Cantor, Theodore Tsoulosides.

Key Words: Brain injuries; Rehabilitation.

Poster 19: Canceled.

Poster 20

Age-Related Differences in Self-Reported Symptoms of Traumatic Brain Injury Using the Brain Injury Screening Questionnaire.

Chari I. Hirshon (Mount Sinai School of Medicine, New York, NY), Kristen Dams-O'Connor, Theodore Tsoulosides, Wayne A. Gordon.

Key Words: Brain injuries; Rehabilitation.

Poster 21

Design and Implementation of a Social Peer Mentoring Program for Persons With Traumatic Brain Injury.

Margaret Struchen (Baylor College of Medicine, Houston, TX), Lynne Davis, Allison Clark, Diana Mazzei, Jay Boggards, Angelle Sander.

Key Words: Brain injuries; Rehabilitation.

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Traumatic Brain Injury During Childhood and Suicide Risk: Risk Factors and Mechanisms.

Yvonne Wayne (Université de Montréal, Montréal, QC, Canada), Bonnie Swaine, Debbie Feldman.

Key Words: Brain injuries; Rehabilitation; Suicide.

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Fluctuations in Performance on the Orientation Log During Acute Recovery Predict Functional Status at Discharge Following Traumatic Brain Injury.

Devan Parrott (Rehabilitation Hospital of Indiana, Indianapolis, IN), Jacob Kean, Abell Malene, Kim Cappa, Mark Williams.

Key Words: Amnesia, retrograde; Delirium; Rehabilitation.

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Biological Parenthood Following Traumatic Brain Injury: Examination of Rates and Factors Related to Having Children After Traumatic Brain Injury.

Yelena Goldin-Lauretta (Mount Sinai School of Medicine, New York, NY), Lisa Spielman, Theodore Tsoulosides, Wayne Gordon, Joshua Cantor.

Key Words: Birth rate; Brain injuries; Rehabilitation.

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Does Time Spent in Activities Relate to Posttraumatic Brain Injury Fatigue?

Jerry Wright (Santa Clara Valley Medical Center, San Jose, CA), Stephanie A. Kolakowsky-Hayner, Laura Jamison.

Key Words: Brain injuries; Fatigue; Rehabilitation.

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Treatment of Headache After Traumatic Brain Injury.

Jeanne Hoffman (University of Washington, Seattle, WA), Kathleen Bell, Sylvia Lucas, Sureyya Dikman.

Key Words: Brain injuries; Post-traumatic headache; Rehabilitation.

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Prognostic Significance of Motor Subtype During Acute Recovery From Traumatic Brain Injury.

Kimberly Cappa (Rehabilitation Hospital of Indiana, Indianapolis, IN), Jacob Kean, Devan Parrott, Malene Abell.

Key Words: Motor activity; Prognosis; Rehabilitation.

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Diagnosing Depression in Traumatic Brain Injury: The Overlap of Somatic Symptoms of Depression and Cognitive Symptoms of Traumatic Brain Injury.

Meghan Beier (Mount Sinai School of Medicine, New York, NY), Lisa Spielman, Eileen Farrell, Svetlana Serova, Theodore Tsoulosides.

Key Words: Brain injuries; Depression; Rehabilitation.

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Differing Discharge FIM Rating Value for Classifying Return to the Community of Older Adults Receiving Inpatient Rehabilitation Following a Traumatic Brain Injury.

Timothy Reistetter (University of Texas Medical Branch, Galveston, TX), Gary Seale, Anne Deutsch, Sam Markello, Carl Granger, Kenneth Ottenbacher.

Key Words: Brain injuries; Outcomes assessment (health care); Rehabilitation.

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Feasibility of Social Communication Skills Group Treatment for Persons With Traumatic Brain Injury and Additional Complications.

Cynthia Braden (Craig Hospital, Englewood, CO), Lenore Hawley, Jody Newman, Don Gerber, Cynthia Harrison-Felix.

Key Words: Brain injuries; Communication disorders; Rehabilitation.

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Going Broke: Impact of Executive Deficits on a Financial Planning Task in Individuals With a Traumatic Brain Injury.

Carolina Bottari (Montreal Neurological Institute, Montreal, QC, Canada), Nadia Gosselin, Melanie Guillemette, Ana-Maria Copasescu, Alain Ptito.

Key Words: Activities of daily living; Brain injuries; Rehabilitation.

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Natural History of Recovery From Brain Injury After Prolonged Disorders of Consciousness: Outcome of Patients Admitted to Inpatient Rehabilitation With 1 to 4 Year Follow-Up.

Douglas Katz, Meg Polyak, Daniel Coughlan, Nicholas Meline, Alexis Roche.

Key Words: Persistent vegetative state; Rehabilitation.

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Marie-Eve Lamontagne (Université de Montréal, Montréal, QC, Canada), Bonnie Swaine, Andre Lavoie, Francois Champagne, Anne-Claire Marcotte.

Key Words: Rehabilitation.

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Impact of Traumatic Brain Injury on Quality of Life and Self-Concept: Perspectives of Survivors in an Ethnically Diverse Sample.

Monique Pappadis (TIRR Memorial Hermann, Houston, TX), Angelle Sander.

Key Words: Brain injuries; Quality of life; Rehabilitation.

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Catherine Emond (Université de Montréal, Montréal, QC, Canada), Julie Lechasseur, Isabelle Gagnon.

Key Words: Rehabilitation.

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A Randomized Dual-Center Controlled Trial of Brief Intervention for Alcohol Abuse in Persons With Traumatic Brain Injury.

Angelle Sander (Baylor College of Medicine, Houston, TX), Alison Clark, John Corrigan, John Bogner, Monica Rosel, Diana Mazzei, Todd Nick.

Key Words: Alcoholism; Brain injuries; Rehabilitation.

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Natural History of Individuals With Late Posttraumatic Seizures After Traumatic Brain Injury.

Stephanie A. Kolakowsky-Hayner (Santa Clara Valley Medical Center, San Jose, CA), Jerry Wright, Laura Jamison, Thao Duong, Jeffrey Englander.

Key Words: Brain injuries; Rehabilitation; Seizures.

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Clinical Correlates of Depression Over Time for Individuals With Traumatic Brain Injury.

Eileen Farrell (Mount Sinai School of Medicine, New York, NY), Meghan Beier, Lisa Spielman, Theodore Tsoulosides.

Key Words: TBI; Depression; Rehabilitation

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Wellness and Weight Management Program for People With Spinal Cord Injury: A Pilot Study.

Jennifer Theis (Sister Kenny Rehabilitation Institute, Minneapolis, MN), Susan Hagel, Susan Masemer, Mary Radomski, Marsha Finkelstein, Marilyn Thompson.

Key Words: Exercise; Health, Rehabilitation; Spinal cord injuries.

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Race, Ethnicity, and Employment Outcomes 1, 5, and 10 Years Following Spinal Cord Injury: A Longitudinal Investigation.

Juan Carlos Arango-Lasprilla (Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University, Richmond, VA), Jessica M. Ketchum, Katherine Francis, Allen Lewis, Paola Premuda, Paul Wehman, Jeffrey Kreutzer.

Key Words: Employment; Rehabilitation; Spinal cord injuries.

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What Team? Continuity of Staffing in Inpatient Spinal Cord Injury Rehabilitation.

Marcel Dijkers (Mount Sinai School of Medicine, New York, NY), Gale Whiteneck.

Key Words: Rehabilitation; Spinal cord injuries.

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Importance of the Continuity of Staffing in Inpatient Spinal Cord Injury Rehabilitation.

Marcel Dijkers (Mount Sinai School of Medicine, New York, NY), Gale Whiteneck.

Key Words: Rehabilitation; Spinal cord injuries.

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Gait Deficits Due to Impairment of the Corticospinal Tract in Persons With Incomplete Spinal Cord Injury.

Dorothy Barthelemy (University of Copenhagen, Copenhagen, Denmark), Maria Willerslev-Olsen, Henrik Lundell, Bernard Conway, Hanna Knudsen, Fin Biering-Seren, Jes B. Neilsen.

Key Words: Rehabilitation.

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Effectiveness of Gabapentinoids in Decreasing Neuropathic Pain Intensity Post Spinal Cord Injury: A Meta-Analysis.

Swati Mehta (Lawson Health Research Institute, St. Joseph's Parkwood Hospital, London, ON, Canada), Katherine Salter, Robert Teasell, Jane Hsieh, Andrea Townson, Jo-Anne Aubut, Christine Short, Dalton Wolfe.

Key Words: Gabapentin [substance name]; Meta-analysis [publication type]; Pregabalin [substance name]; Rehabilitation; Spinal cord injuries.

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Effectiveness of Botulinum Toxin Injections to the External Sphincter in Treating Incomplete Voiding Post Spinal Cord Injury: A Meta-Analysis.

Swati Mehta (Lawson Health Research Institute, St. Joseph's Parkwood Hospital, London, ON, Canada), Norine Foley, Dalton Wolfe, Jane Hsieh, Karen Ethans, Denise Hill, Robert Teasell.

Key Words: Botulinum toxins; Meta-analysis [publication type]; Rehabilitation; Spinal cord injuries; Urinary bladder.

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Balance of Spinal Cord Injury Rehabilitation Services Provided in Inpatient and Postdischarge Settings.

Gale Whiteneck (Craig Hospital, Englewood, CO), Julie Gassaway, Marcel Dijkers.

Key Words: Rehabilitation; Spinal cord injuries.

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Correlations Between Recovery of Ambulatory Capacity and Lower-Limb Somatosensory Evoked Potentials in Incomplete Spinal Cord Injury.

Celia J. Clarke (Faculty of Health, University of East Anglia, Norwich, UK), Sujay Galen, David B. Allan, Bernard A. Conway.

Key Word: Evoked potentials, somatosensory; Rehabilitation.

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Psychometric Properties of the Spinal Cord Injury Pressure Ulcer Knowledge Scale.

Alexander Libin (National Rehabilitation Hospital, Washington, DC), Jean Hsieh, Inger Ljungberg, Suzanne Groah.

Key Words: Pressure ulcer; Rehabilitation; Spinal cord injuries.

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Effectiveness of Electrical Stimulation in Treating Pressure Sores Post Spinal Cord Injury: A Meta-Analysis.

Darshi Sokkalingam (Lawson Health Research Institute, St. Joseph's Parkwood Hospital, London, ON, Canada), MaryAnn Regan, Dalton Wolfe, Norine Foley, Swati Mehta, Robert W. Teasell, the SCIRE Research Group.

Key Words: Electric stimulation; Pressure Ulcer; Rehabilitation; Spinal cord injuries.

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Control of a Robotic Aid to Manipulation by Myoelectric Signals in Spinal Cord Injury Subjects.

Rachid Aissaoui (Laboratory of Imaging and Orthopaedics, École de Technologie Supérieure, QC, Canada), Véronique Maheu.

Key words: Rehabilitation; Spinal cord injuries.

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Evaluation of Balance Abilities in a Spinal Cord Injury Population: Concurrent Validity of the Balance Master.

Jean-Francois Lemay (Institut de Réadaptation Gingras-Lindsay de Montréal, Montreal, QC, Canada), Sylvie Nadeau.

Key Words: Postural balance; Rehabilitation; Spinal cord injuries.

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Factors Related to Acceptance of Disability in Individuals With Spinal Cord Injury From Colombia, South America.

Juan Carlos Arango-Lasprilla (Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University, Richmond, VA), Silvia Leonor Olivera Plaza, Elizabeth Nicholls, Xiaoyan Deng, Tara Lehan, Jose Libardo Perdomo Romero, Jose Anselmo Arango Pizarro.

Key Words: Rehabilitation; Spinal cord injuries.

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Rehabilitation of a Pediatric Patient With Incomplete Spinal Cord Injury: Case Study.

Samantha Dewey (TIRR Memorial Hermann, Houston, TX).

Key Words: Electric stimulation; Rehabilitation; Spinal cord injuries.

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Rehabilitation Services Provided to Patients With Traumatic and Nontraumatic Spinal Cord Injury in Acute Care and Inpatient Rehabilitation Facility.

Jean Hsieh (National Rehabilitation Hospital, Washington, DC), Gerben DeJong, Marvin Gunawan.

Key Words: Rehabilitation; Spinal cord injuries.

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Effectiveness of Standardized Spinal Cord Injury Patients in Physical Medicine and Rehabilitation Resident Training: A Feasibility and Technical Needs Assessment.

Manon Lauderdale (National Rehabilitation Hospital, Washington, DC), Cynthia Pineda, Suzanne Groah, Pamela Ballard, Curtis Whitehair, Kareem Hubbard, Inger Ljungberg, Brenda Triyana.

Key Words: Internship and residency; Patient simulation; Rehabilitation; Spinal cord injuries.

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Treatment of Secondary Complications Post Spinal Cord Injury Through the Use of Electrical Stimulation Therapy: A Systematic Review.

Amie Curiale (St. Joseph's Parkwood Hospital, London, ON, Canada), Swati Mehta, JoAnne Aubut, Robert Teasell.

Key Words: Electric stimulation; Rehabilitation; Spinal cord injuries.

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Preventing Secondary Complications Post Spinal Cord Injury Through Electrical Stimulation: A Systematic Review.

Amie Curiale (St. Joseph's Parkwood Hospital, London, ON, Canada), Swati Mehta, Robert Teasell.

Key Words: Electric stimulation; Rehabilitation; Spinal cord injuries.

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Hip and Femur Bone Mineral Density Changes After Electrical Stimulation and Loading in Persons With Motor Complete Spinal Cord Injury.

Gail Forrest (Kessler Foundation, West Orange, NJ), Claudia Angeli, Chris Cignigliaro, Pouran Faghri, Steven Kirschblum, Susan Harkema.

Key Words: Bone and bones; Rehabilitation.

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H.D. Park (Seoul Medical Center, Seoul, Korea), H.J. Kim.

Key Words: Rehabilitation; Sialorrhea; Stroke.

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Key Words: Cerebral hemorrhage; Hydrocephalus; Rehabilitation.

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Dong Yan (In-Tech Rehabilitation Hospital, Beijing, China), Xiaoli Guan Wenli Hu.

Key Words: Rehabilitation; Stroke.

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D. Bourbonniase (University of Montreal, Montreal, Québec, Canada), S. LaCasse, E. DeOliveira, U.I. Wolfe.

Key Words: Rehabilitation.

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Presence of Finger Extension and Shoulder Abduction within 72 Hours Poststroke Predicts Functional Recovery.

Erwin van Wegen (Department of Rehabilitation Medicine, Research Institute MOVE, VU University Medical Center, Amsterdam, the Netherlands), Rinske Nijland, Janne Veerbeek, Barbara Harmeling-van der Wel, Gert Kwakkel.

Key Words: Rehabilitation; Recover of function; Stroke.

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Selena Lauziere (Université de Montréal, Montréal, QC, Canada), Carole Mieville, Sylvie Nadeau, Marie-Helene Milot.

Key Words: Rehabilitation; Stroke; Walking.

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Key Words: Hemiplegia; Rehabilitation.

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Evaluation of Motor Evoked Potentials as a Measure of Impairment Using Navigated and Nonnavigated Transcranial Magnetic Stimulation in Stroke.

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Key Words: Hemiplegia; Rehabilitation.

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Claire Perez (McGill University, Montreal, QC, Canada), Alison Oates, Bradford McFayden, Joyce Fung.

Key Words: Rehabilitation.

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Pamela Bosch, Mary Kathryn Wing (A.T. Still University, Mesa, AZ), James Lynskey.

Key Words: Locomotion; Rehabilitation; Stroke; Upper extremity.

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Does Providing More Exercise-Based Therapy Enhance Motor Recovery After Stroke? A Systematic Review and Meta-Analysis.

Emma Cooke (University of East Anglia, Norwich, UK), Kathryn Mares, Allan Clark, Raymond Tallis, Valerie Pomeroy.

Key Words: Rehabilitation; Stroke.

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C. Giuffrida (Occupational Therapy Department, Rush University Medical Center, Chicago, IL), R. Gravenhorst Braun, L. Newton, K. O'Neil, J. Cauraugh.

Key Words: Rehabilitation; Stroke.

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Inpatient Rehabilitation Volume-Outcomes Relationship for Stroke, Hip Fracture, and Joint Replacement.

James Graham (University of Texas Medical Branch, Galveston, TX), Anne Deutsch, Samuel Maarkello, Carl Granger, Kenneth Ottenbacher.

Key Words: Outcomes assessment (health care); Quality indicators, health care; Rehabilitation.

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G. F. Wittenberg (Veterans Affairs Maryland HCS, Baltimore, MD).

Key Words: Rehabilitation; Stroke.

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J. Prvu Bettger, J. Stein, Z. Magdon-Ismail

Key Words: Evidence-based practice; Quality indicators, health care; Rehabilitation; Stroke.

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Anadele Briere (Centre de Recherche Interdisciplinaire en Réadaptation, Institut de Réadaptation Gingras-Lindsay-de-Montréal, Montréal, QC, Canada), Selena Lauziere, Denis Gravel, Sylvie Nadeau.

Key Words: Perception; Rehabilitation; Stroke.

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Nicola Hancock (University of East Anglia, Norwich, Norfolk, UK), Lee Shepstone, Will Winterbotham, Valerie Pomeroy.

Key Words: Rehabilitation; Stroke.

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Physical and Occupational Therapy in Inpatient Stroke Rehabilitation: The Contribution of Therapists and Their Extenders.

Jean Hsieh (National Rehabilitation Hospital, Washington, DC), Koen Putman, Gerben DeJong, Randall Smout, Susan Horn.

Key Words: Occupational therapy; Rehabilitation; Stroke.

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Geographic Patterns in Rehabilitation Outcomes Following Stroke.

Timothy Reistetter (University of Texas Medical Branch, Galveston TX), James Graham, Anne Deutsch, Amol Karmarkar, Karl Eschbach, Carl Granger, Kenneth Ottenbacher.

Key Words: Outcomes assessment (health care); Rehabilitation; Stroke.

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Nancy Flinn (Courage Center, Minneapolis, MN), Kim Storm.

Key Words: Rehabilitation; Self care; Spinal cord injuries.

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Cyril Duclos (Centre for Interdisciplinary Research in Rehabilitation, Institut de Réadaptation Gingras-Lindsay-de-Montréal; School of Rehabilitation, Faculty of Medicine, Université de Montréal, Montréal, QC, Canada), Sylvie Nadeau, Laurent Bouyer, Carol L. Richards.

Key Words: Rehabilitation; Stroke.

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Optimal Daily Duration of Repetitive Task Specific Training Incorporating Electrical Stimulation in Moderately Impaired Stroke.

Stephen Page (University of Cincinnati Academic Health Center, Cincinnati, OH), Kari Dunning, Valerie Hermann, Pierce Boyne, Peter Levine.

Key Words: Electric stimulation; Hemiplegia; Occupational therapy; Rehabilitation.

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Valerie Hermann (University of Cincinnati Academic Medical Center, Cincinnati, OH), Leah Dunn, Stephen Page.

Key words: Hemiplegia; Occupational therapy; Rehabilitation .

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Sandeep Subramanian (McGill University, Montreal, QC, Canada), Juri Yamanaka, Geborg Chilingaryan, Mindy Levin.

Key Words: Rehabilitation; Stroke.

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Juri Yamanaka (McGill University, Montreal, QC, Canada), Anatol G. Feldman, Mindy F. Levin.

Key Words: Hand strength; Rehabilitation; Stroke.

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Rachel Kizony (University of Haifa, Haifa, Israel), Mindy F. Levin, Lucinda Hughey, Claire Perez, Joyce Fung.

Key Words: Rehabilitation.

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Key Words: Muscle, skeletal; Rehabilitation; Stroke.

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Key Words: Canes; Rehabilitation; Stroke.

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Christiane B. Lourenco (McGill University, Montreal, QC, Canada), Sandeep K. Subramanian, Heidi Sveistrup, Mindy Levin.

Key Words: Rehabilitation.

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Key Words: Ethnic groups; Rehabilitation outcome; Rehabilitation; Stroke.

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Caryne Torkia (McGill University, Montreal, QC, Canada), Isabelle Gelin, Catherine Sabiston, Nicol Korner-Bitensky, Annie Rochette.

Key Words: Rehabilitation; Stroke.

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Key Words: Rehabilitation; Stroke.

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Tal Krasovsky (McGill University, Montreal, QC, Canada), Melanie C. Banina, Anouk Lamontagne, Anatol G. Feldman, Mindy F. Levin.

Key Words: Rehabilitation; Stroke; Walking.

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Key Words: Rehabilitation; Workers' Compensation.

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Key Words: Brain injuries; Rehabilitation.

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Michael O'Dell, (New York-Presbyterian Hospital-Weill Cornell Medical Center, New York, NY), Grace Kim, Lisa Rivera Finner, Kerri Fitzgerald, Delia Gorga, Caitlin Polistena.

Key Words: Rehabilitation; Stroke.

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Key Words: Dizziness; Rehabilitation.

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Key Words: Rehabilitation.

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Key Words: Consumer participation; Quality of life; Rehabilitation; Role.

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Key words: Arthritis, rheumatoid; Health services accessibility; Rehabilitation.

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Amol M. Karmarkar (University of Texas Medical Branch, Galveston, TX), James E. Graham, Timothy A. Reistetter, Carl V. Granger, Kenneth J. Ottenbacher.

Key Words: Rehabilitation; Rehabilitation outcome.

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Alexander Moreno (Police Central Hospital, Bogotá, Colombia), Juan Carlos Arango-Lasprilla, Xiaoyan Deng, Tara Lehan, Allison Drew, Mariantonia Lemos.

Key Words: Caregivers; Dementia; Quality of life; Rehabilitation.

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Bonnie Swaine (Center for Interdisciplinary Research in Rehabilitation of Greater Montreal, Montreal, QC, Canada), Eliane Dulude, Regis Blais, Lise Poissant, Rejean Prevost.

Key Words: Brain Injuries; Quality assurance, health care; Rehabilitation.

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Debra L. Braverman (Albert Einstein Medical Center, Philadelphia, PA), Claudia Crane, Lynne M. Adamczyk, Margaret A. DiVita, Carl V. Granger.

Key Words: Angina pectoris; Counterpulsation; Rehabilitation.

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Rita Bode (Northwestern University, Chicago, IL), Jeffrey Jutai, Allen Heinemann, Marcus Fuhrer.

Key Words: Rehabilitation.

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Tian Wenqiang (National Rehabilitation Hospital, Washington, DC), Gerbon DeJong, Michael Minon.

Key Words: Arthroplasty, replacement, hip; Episode of care; Rehabilitation.

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Key Words: Health services accessibility; Rehabilitation.

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Vera Fung (St. John's Rehab Hospital, Toronto, ON, Canada), Aileen Ho, Jennifer Shaffer, Manuel Gomez.

Key Words: Arthroplasty, replacement, knee; Rehabilitation; Video games.

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Performance-Based Assessment in High-Functioning Individuals Poststroke: Validity and Sensitivity to Change of the 2-Minute Walk Test.

K. Salter (Aging, Rehabilitation and Geriatric Care Program, Lawson Health Research Institute, Parkwood Hospital site, London, ON, Canada), J.A. McClure, N. Foley, Robert Teasell.

Key Words: Outcomes Assessment (health care); Stroke; Rehabilitation.

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Is the Modified Step Test a Better Tool Than the Berg Balance Scale to Document Balance Improvements in High Functioning Persons With Traumatic Brain Injury Over an Inpatient Rehabilitation Stay?

Josee Gauthier (Institut de Réadaptation Gingras-Lindsay-de-Montréal, Montréal, QC, Canada), Maria Carangelo, Annie Daigle, Maude Dulude, Alain Godbout, Bonnie Swaine.

Key Words: Brain injuries, Rehabilitation.

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Mylène Dumouchel (McGill University, Montreal, QC, Canada), Matthew Kudo, Carmen Lee, Steven McElliott, Sara Ahmed, Diana Dawes.

Key Words: Rehabilitation; Shoulder.

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W. Ben Mortenson (Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montreal, QC, Canada), Louise Demers, Jeff Jutai, Marcus Fuhrer, James Lenker, Frank DeRuyter.

Key Words: Caregivers; Outcome assessment (health care); Rehabilitation; Review [publication type].

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Bahaa Omran (Newcastle University, Newcastle upon Tyne, UK), Michael Barnes, Laura Graham, Garth Johnson.

Key Words: Rehabilitation.

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Heather Vincent (University of Florida, Gainesville, FL), Gerben DeJong, Jean Hsieh, Koen Pitman, Susan Horn, Randall Smout, Wengiang Tian.

Key Words: Arthroplasty; Body mass index; Rehabilitation.

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Key Words: Burns; Rehabilitation; Stress disorders, post-traumatic.

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Maria Lung (St. John's Rehab Hospital, Toronto, ON, Canada), Leslie Edmison, Beth Mahy, Shari-Lynne Yasin, Manuel Gomez, Dina Brooks, Nancy Salbach.

Key Words: Arthroplasty; Rehabilitation; Walking.

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Analysis of Rehabilitation Activities Within Skilled Nursing and Inpatient Rehabilitation Facilities Following Hip Replacement for Acute Hip Fracture.

Koen Putman (Center for Post-acute Studies, Washington, DC), Michael Munin, Chiing-Hui Hsieh, Susan Horn, Gerben DeJong, Randall Smout, Wenqiang Tian.

Key Words: Arthroplasty, replacement, hip; Hip fractures; Rehabilitation.

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Carrie Ciro (University of Texas Medical Branch, Galveston, TX), Kenneth Ottenbacher, Yong-Fang Kuo, Glenn Ostir.

Key Words: Depression; Frail elderly; Rehabilitation.

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Jae Chul Lee (Northwestern University, Chicago, IL), Romana Hasnain-Wynia, Denys T. Lau.

Key Words: Health services accessibility; Frail elderly; Rehabilitation.

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Dennis Tomashek (University of Wisconsin-Milwaukee, Milwaukee, WI), Mark V. Johnston.

Key Words: Rehabilitation.

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Christine Chen (Columbia University, New York, NY), Orit Palmon.

Key Words: Activities of daily living; Occupational therapy; Outcome assessment (health care); Rehabilitation.

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Pouran Faghri (University of Connecticut, Storrs, CT), Kamyar Momeni, Santina Galbo, Jessica Ehrentraut.

Key Words: Nursing staff; Rehabilitation.

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Multimedia Versus Text: Which Format Provides a More Reliable Measure of Clinical Documentation Practice Among Research Occupational and Physical Therapists?

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Key Words: Multimedia; Rehabilitation.

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Carolina Bottari (Montreal Neurological Institute, Montreal, QC, Canada), Clement Dassa, Constant Rainville, Elizabeth Dutil.

Key Words: Activities of daily living; Brain injuries; Rehabilitation.

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Cynthia Gagnon (Université de Sherbrooke, Chicoutimi, QC, Canada), Maud-Christine Chouinard, Francois Champagne, Melissa Lavoie.

Key Words: Case management; Myotonic dystrophy; Nursing.

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Gianluca Serrento (School of Physical and Occupational Therapy, McGill University, Montreal, QC, Canada), Philippe Archambault, Francois Routhier, Patrick Boissy.

Key Words: Rehabilitation; Wheelchairs.

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Effect of Electrical Stimulation on the Regenerative Potential of Human Muscle Precursor Cells: A Case Report.

Elke Brown (University of Pittsburgh, Pittsburgh, PA), Alison Legar, Bret Goodpaster, G. Kelley Fitzgerald, Johnny Huard, Michael Boninger, Fabrisia Ambrosia.

Key Words: Electric stimulation; Rehabilitation; Stem cells.

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Health Literacy and Trust in Sources of Quality Information.

Holly M. DeMark (Rehabilitation Institute of Chicago, Chicago, IL), Anne Deutsch, Caitlin Taylor, Christina Papadimitriou, Susan Magasi, Allen Heinemann.

Key Words: Health literacy; Quality assurance; Health care; Rehabilitation; Trust.

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Benefits of a Medical Assistance, Medicare, and Waiver Care Coordination Program for Persons With Disabilities.

Nancy Flinn (Courage Center, Minneapolis, MN), Rob Kreiger, Tom Kelley, Nancy Huizenga, Karl Sandin, Randy, Bachman.

Key Words: Rehabilitation.

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Nancy Flinn (Courage Center, Golden Valley, MN), Erin Simonds.

Key Words: Rehabilitation.

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Jeanne M. Zanca (Mount Sinai School of Medicine, New York, NY).

Key Words: Classification; Focus groups; Medical records; Rehabilitation.

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Therese E. Johnston (University of the Sciences, Philadelphia, PA), Susan Wainwright.

Key Words: Cerebral palsy; Electric stimulation; Rehabilitation.

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An Intensive Virtual Reality Program Improves Balance and Functional Mobility of Adolescents with Cerebral Palsy.

Marie Brien (Ottawa Children's Treatment Center, Ottawa, ON, Canada), Heidi Sveistrup.

Key Words: Cerebral palsy; Postural balance; Rehabilitation.

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Susan Conroy (Veterans Affairs Maryland Health Care System, Baltimore, MD), Lauren Jones-Lush, Toye Jenkins, Margaret Finley, Jill Ohlhoff, Jill Whittall, Min Zhan, George Wittenberg, Hermano Krebs, Christopher Bever.

Key Words: Rehabilitation; Robotics; Upper extremity.

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Key Words: Access to Information; Publications; Rehabilitation.

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Sleep Disorders in Multiple Sclerosis.

Kurt Johnson (University of Washington, Seattle, WA), Alyssa Bamer, Kara McMullen.

Key Words: Multiple sclerosis; Rehabilitation; Sleep.

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Julie Gassaway (Institute of Clinical Outcomes Research, Salt Lake City, UT), Gale Whiteneck.

Key Words: Rehabilitation.

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Helene Lefebvre (Nursing Faculty, Montreal University, Montreal, QC, Canada), J.M. Mazaux, T. Sarraf, J.J. Weiss, P. Azouvi, I. Gélinas, M.J. Levert, Collaborators: France: A. Cohadon, I. Pourret, M.P. Penet; Quebec: J. Gauvin-Lepage, J. Goudrault, S. Lalonde.

Key Words: Brain injuries; Rehabilitation.

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J. Atkins (St. John's Rehab Hospital, Toronto, ON, Canada), A. Grigorovich, J. Fish, L. Leach.

Key Words: Electric injuries; Psychology; Rehabilitation.

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Neuropsychological Sequelae Following Electrical Injury Among Patients Treated in a Rehabilitation Hospital: A Pilot Study.

Jana H. Atkins (St. John's Rehab Hospital, Toronto, ON, Canada), Alisa Grigorovich, Joel Fish, Larry Leach, Manuel Gomez.

Key Words: Electric Injuries; Neuropsychological sequelae; Rehabilitation

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Is Computerized Balance Assessment More Useful Than the Berg Balance Scale in Detecting Fall Risk in Multiple Sclerosis Patients?

Darlene Stough (Cleveland Clinic, Cleveland, OH), Praise Opara, Michelle Harrison-Cudnik, Francoise Bethoux.

Key Words: Multiple sclerosis; Rehabilitation.

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Transcranial Magnetic Stimulation of Primary Motor Cortex: Effects on Robotic Reach Training.

Lauren Jones-Lush (University of Maryland School of Medicine, Baltimore, MD), Timothy Judkins, George Wittenberg.

Key Words: Rehabilitation; Robotics; Transcranial magnetic stimulation.

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Jordan House (University of Massachusetts Amherst, Amherst, MA), Stephanie Jones, Jebb Remelius, Michael Busa, Jane Kent-Braun, Richard van Emmerik.

Key Words: Gait; Multiple sclerosis; Rehabilitation.

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Mary Stergiou-Kita (University of Toronto, Toronto, ON, Canada).

Key Words: Practice guidelines as topic; Rehabilitation.

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Ju Seek Ryu (Department of Rehabilitation Medicine, CHA University College of Medicine, Seongnam-si, Gyeonggi-do, Korea), Min Young, Jin Young Kang, Kyoung Hyo Choi.

Key Words: Rehabilitation.

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Béla Hegedűs (Rehabilitation Institute, Municipal Hospital, Orosháza, Hungary), János Varga, György Gruber, Attila Somfay.

Key Words: Quality of Life; Rehabilitation.

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Key Words: Perception; Rehabilitation; School.

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Nicole Paquet (University of Ottawa, Ottawa, Ontario, Canada), Yves Lajoie, Renee Lafleur.

Key Words: Rehabilitation.

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Benefits of Home-Based Balance Exercises for Visually Impaired Seniors.

Elizabeth Dannenbaum (Feil and Oberfeld Research Centre, Jewish Rehabilitation Hospital, Laval, QC, Canada), Dahlia Kairy, Joyce Fung.

Key Words: Rehabilitation.

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**Children With Primary Language Impairment
Transitioning to School: Utilization and Satisfaction
With Rehabilitation Services.**

Barbara Mazer (McGill University, Montreal, QC, Canada),
Aguy Maryoussef, Karyne Dion.

Key Words: Language disorders; Rehabilitation; School health
services.

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**Active Transfers of Chronic Neurological Patients:
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Behavior of Nurses and Nursing Aids in a Long-
Term Care Facility.**

Hubert Vuagnat (Rehabilitation and Geriatrics, Constant
Care Division, University Hospitals of Geneva, Geneva,
Switzerland, Switzerland), Pierre Cantier, Marie-Andree
Seraphin, Julia Vacsey, Jean-Christophe Richard, Nadia Donnat.

Key Words: Rehabilitation; Teaching.

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**Stabilizing Properties of Plantar Cutaneo-Muscular
and Tendon Vibrations During Upright Standing.**

Cynthia Thompson (Feil and Oberfeld CRIR Research Center,
Jewish Rehabilitation Hospital, Laval, QC, Canada),
Marc Bolanger, Joyce Fung.

Key Words: Rehabilitation; Vibration.

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**Improving Hemiparetic Hand Function: Training
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LaFond, Sergei Adamovich.

Key Words: Rehabilitation; Robotics.

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Barbara Mazur (McGill University, Montreal, QC, Canada),
Annette Majnemer, Gevorg Chilingaryan, Debbie Ehrmann
Feld.

Key Words: Cerebral palsy; Child health services;
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Mary Stergiou-Kita (University of Toronto, Toronto, ON,
Canada).

Key Words: Brain Injuries; Employment; Rehabilitation.

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**Can Telerehabilitation Become Part of Routine
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Kairy Dahlia (Université de Montréal, Montréal, QC, Canada),
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Key Words: Rehabilitation; Telemedicine; Videoconferencing.

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Chantel Camden (Université de Montréal, Montréal, QC,
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Key Words: Child; Disabled persons; Rehabilitation.

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**What Do Practicing Speech-Language Pathologists
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Leslie Johnson (University of North Carolina at Greensboro,
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Key Words: Persistent vegetative state; Rehabilitation.

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**Inventory and Appraisal of Health
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Melanie Levasseur (Research Center on Aging, Sherbrooke
Geriatric University Institute, Sherbrooke, QC, Canada),
Kathleen Roy-Bouthot, Genevieve Mercille, Lori Letts.

Key Words: Health promotion; Rehabilitation.

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**Changes in Corticospinal Excitability Induced by
Simultaneous Isometric Contractions and Paired
Associative Stimulation.**

Niamh Kennedy (University of East Anglia, Norwich, UK),
Richard Carson.

Key Words: Rehabilitation; Upper extremity.

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Neuroendocrine Disorders Post Acquired Brain Injury.

Jo-Anne Aubut (Aging, Research and Geriatric Care, Parkwood Hospital, London, ON, Canada), Robert Teasell, Shawn Marshall, Lilia Golverk.

Key Words: Brain injuries; Rehabilitation.

Poster 160

Identifying Aspects of Neurobehavioral Dysfunction in Persons With Brain Injury: Relationships to Caregiver Distress and Perceived Burden.

Samantha Backhaus (Rehabilitation Hospital of Indiana, Indianapolis, IN), Summer Ibarra, Devan Parrot, James Malec.

Key Words: Brain injuries; Caregivers; Rehabilitation.

Poster 161

Social Problem Solving Orientation and Style as Predictors of Community Participation Following Brain Injury.

Summer Ibarra (Rehabilitation Hospital of Indiana, Indianapolis, IN), Samantha Backhaus, Kimberly Cappa, Devoan Parrot.

Key Words: Brain injuries; Problem solving; Rehabilitation.

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Fluctuations in Performance on the Orientation Log During Acute Recovery Predict Functional Status at Discharge Following Traumatic Brain Injury.

Devan Parrott (Rehabilitation Hospital of Indiana, Indianapolis, IN), Jacob Kean, Abell Malene, Kim Cappa, Mark Williams.

Key Words: Amnesia, retrograde; Delirium; Rehabilitation.

Poster 163

Robotically Facilitated Upper-Extremity Task Practice in Complex Virtual Environments for Children with Cerebral Palsy.

Sergei V. Adamovich (New Jersey Institute of Technology, Newark, NJ) Qinyin Qiu, Diego Ramirez, Soha Saleh, Heta D. Parikh, Donna Kelly, Gerard G. Fluet.

Key Words: Cerebral palsy; Rehabilitation; Robotics.

Poster 164

Brain Injury Coping Skills Group: A Replication Study.

Anne Moessner (Mayo Clinic College of Medicine, Rochester, MN), Samantha Backhaus, Summer Ibarra, Devan Parrot, Daniel Klyce, Sydan Lepore, James Malec.

Key Words: Brain injuries; Rehabilitation.

Poster 165

Qi Gong for Physical Rehabilitation for Parkinson-Related Falls: A Neuroplasticity Approach.

Sheree Loftus (Beth Israel Neurology, New York, NY).

Key Words: Accidental falls; Exercise; Neuronal plasticity; Parkinson disease; Rehabilitation.

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Improvement in Proprioceptive Function Following Upper-Limb Sensorimotor Training.

Jeanne Lanan (School of Kinesiology, University of Michigan, Ann Arbor, MI), Kathy Kern, Edward Hurvitz, Susan Brown.

Key Words: Cerebral palsy; Rehabilitation.

Poster 167

Neuromuscular Fatigue Alters Postural Control Strategies Used to Maintain Balance.

Ashleigh Kennedy (University of Ottawa, Ottawa, ON, Canada), Heidi Sveistrup, Arnaud Geuvel.

Key Words: Rehabilitation.

Poster 168

Rehospitalization Following Inpatient Rehabilitation Facility Care: Description and Prediction.

Mark Johnston (University of Wisconsin-Milwaukee, Milwaukee, WI), Dennis Tomashek.

Key Words: Hospitalizations; Prognosis; Rehabilitation.

Poster 169

Attention Processing Training and Theory of Mind Performance: Results From a Pilot Study.

Kristine Lundgren (University of North Carolina at Greensboro, Greensboro, NC), Hiram Brownell, Carol Cayer-Meade, Cheryl Jablonski.

Key Words: Brain injuries; Rehabilitation; Theory of mind.

Poster 170

Failure of Adaptation to Multifocal Lenses: Longitudinal Evidence and Implications on Falling.

Roger O. Smith (University of Wisconsin-Milwaukee, Milwaukee, WI), Dennis Tomashek.

Key Words: Accidental falls; Eyeglasses; Rehabilitation.

Poster 171

Evaluation of Forefoot Force During Terminal Double Support With Ankle Foot Orthosis.

Karen J. Nolan (Kessler Foundation Research Center, Human Performance and Movement Analysis Laboratory and Traumatic Brain Injury Laboratory, West Orange, NJ), Mathew Yarossi.

Key Words: Rehabilitation.

Poster 172

Factors in Adaptive and Maladaptive Coping in Individuals Experiencing Vision Loss.

Nathalie Duponsel (School of Optometry, University of Montreal, Montreal, QC, Canada), Walter Wittich, Olga Overbury.

Key Words: Rehabilitation.

Poster 173

Can the Severity of Weakness Effectively Guide our Choice of Rehabilitation Interventions for Neurodegenerative Diseases?

Jennifer Keller (Hugo W. Moser Research Institute at Kennedy Krieger, Inc, Baltimore, MD), Joseph Wang, Jennifer Swain, Jonathan Kang, Priya Kamath, Gerald Raymond, Kathleen Zackowski.

Key Words: Muscle weakness; Rehabilitation.

Poster 174

Old Age Reduces the Ability to Reorient Locomotor Trajectories Based on Visual Information.

Anouk Lamontagne (School of Physical and Occupational Therapy, McGill University, Montreal, QC, Canada), Joyce Fung, Jessica Berard.

Key Words: Rehabilitation; Walking.

Poster 175

Clinical Populations Can Be Distinguished on Sit-to-Stand Movement Parameters.

Heidi Sveistrup (University of Ottawa, Ottawa, ON, Canada), Megan Fitzpatrick, Jana MacLeod, Olinda Habib, Amaya Arcelus, Martin Bilodeau, Rafik Goubran, Frank Knoefel.

Key Words: Outcome assessment (health care); Rehabilitation; Sit-to-stand.

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Neuropsychology and Functional Performance in Daily Activities Associated With Pontine and Subcortical Demyelination: A Case Study.

Sabrina Arciero (Hôpital du Sacré-Coeur, Montreal, QC, Canada), Christina Kempf, Francis Bernard, Nadia Gosselin.

Key Words: Executive function; Myelinolysis, central pontine; Rehabilitation.

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Multisite Randomized Controlled Trials for Neurorehabilitation: Lessons Learned From the International SIRROWS Trial.

Prudence Plummer-D'Amato, Bruce Dobkin, SIRROWS Group.

Key Words: Gait; Rehabilitation; Stroke.

Poster 178

Comparison of Outcomes and Costs of 2 Publicly-Funded Community-Based Models of Acquired Brain Injury Services.

Kathryn Boschen (University of Toronto, Toronto, ON, Canada), Gary Gerber, Judith Gargaro.

Key Words: Brain injuries; Rehabilitation.

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Kinematic and Kinetic Comparison of Gait Profiles Between Poststroke and Spinal Cord Injured Individuals.

Sylvie Nadeau (University of Montreal, Montreal, QC, Canada), Hugues Barbeau, Christiane Garneau, France Pottie.

Key Words: Gait; Rehabilitation; Spinal cord injuries; Stroke.

Poster 180

Effect of Bilateral Isometric Forces in Different Directions on Motor Cortical Function.

Juliette A. Yedimenko (University of Pittsburgh, Pittsburgh, PA), Monica A. Perez.

Key Words: Motor cortex; Rehabilitation.

Poster 181

Motor Control by Shifting Spatial Reference Frames for Motoneuronal Recruitment.

Helli Raptis (Université de Montréal, Montréal, QC, Canada), Liziane Burtet, Robert Forget, Anatol G. Feldman.

Key Words: Threshold position resetting; Primary motor cortex; Transcranial magnetic stimulation

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ACRM promotes the development of multidisciplinary leadership and practice innovation for efficacious rehabilitation management of chronic disease and disability across the life span. We serve as a forum to discuss new treatment paradigms that define the composition of the rehabilitation team, the duration of care, and the venues required to achieve optimal functional outcomes for people with disabilities and chronic disease.

ACRM welcomes the involvement of rehabilitation professionals, including clinicians, senior level service managers, administrators, educators, and researchers. We call upon leaders in rehabilitation to identify best practices and best providers at all levels of care. As the field of medical rehabilitation evolves, ACRM will continue to create to exchange information and collaborate with the range of rehabilitation professionals, corporate providers, health-care payers, and industry regulators.

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This award is granted in honor of Edward Lowman, MD who recognized the importance of multidisciplinary teams in rehabilitation. Each winner's career reflects an energetic promotion of the spirit of interdisciplinary rehabilitation.

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Distinguished Member Award

Established in 1988, this award honors professionals who contribute significantly to the development and functioning of ACRM, demonstrating leadership skills, organizational abilities, and public service. Criteria to achieve this award includes membership in good standing plus extraordinary service to this organization, including as a Committee Chair or member, taskforce member, and/or interdisciplinary special interest group or networking group member.

Honoree:

Henry B. Betts, MD, FACRM
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Gold Key Award

This certificate of merit, established in 1932, is for members of medical and allied professions who render extraordinary service to the cause of rehabilitation. It is the highest honor given by ACRM.

Honoree:

Ruth Brannon, MSPH, MA
Director, Research Sciences Division
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Deborah L. Wilkerson Early Career Award

This memorial fund honors Deborah L. Wilkerson, a beloved member, former President, and ACRM Fellow. Deborah was devoted to improving the quality of rehabilitation and independent living services for people who needed them. She demonstrated commitment to person-centered services and was an advocate for individuals with disabilities.

Honoree:

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Director, Brain Injury Research
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Fellow of ACRM Award

The Fellow of the ACRM award is presented to individuals who contribute significantly to the field of rehabilitation and to ACRM.

Honoree: To be announced onsite

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The mission of ASNR is to promote the medical and social wellbeing of persons with disabling neurological disorders, to advance training and research in the basic and clinical sciences that can lead to functional recovery of neurologically impaired persons, and to disseminate the knowledge of this research among professionals and the general public.

The ASNR was established to advance the discipline of Neurorehabilitation with commitments to:

- The prevention of further disability and disease in our patients and achievement of maximal functional outcomes;
- The advancement of scientific and technological innovations impacting neurologic disability and disease;
- The scientific understanding of neurologic injury and recovery; and
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Fletcher H. McDowell Award

ASNR offers this award for the best clinical science poster presented by a student, resident or post-doctoral fellow, or a clinician within 5 years of training to encourage research relevant to neurorehabilitation by clinicians and young investigators. While the contestant must be the senior author of the abstract, there are no restrictions on co-authorship. Honorees receive a \$500 stipend and award certificate.

Kenneth Viste Jr. MD Memorial Lectureship

Kenneth M. Viste, Jr., MD was a tireless advocate for neurorehabilitation and ASNR, and was active in the organization since its inception as president, membership committee chair and a member of the Practice Issues Committee. ASNR honors his memory by presenting the award annually to an individual that has supported the mission and vision of ASNR. Lecturer: Alexander W. Dromerick, MD

Outstanding Neurorehabilitation Clinician Scientist Award

Understanding and Augmenting Motor Learning for the Benefit of Neurological Rehabilitation

The award is based on the evaluation of his or her peers, to mechanisms of neural repair, translational research from mechanisms of repair or clinical neurorehabilitation. Nominations are invited from the membership of the American Society of Neurorehabilitation (ASNR). The American Society of Neurorehabilitation Education Foundation Board of Directors, made up of past presidents of the ASNR, selects the recipient of the award.

Honoree: Pablo Celnik, MD

Presidential Award

ASNR offers this award for the best basic science poster presented by a student, resident, post-doctoral fellow, or a clinician within 5 years of training to encourage research relevant to neurorehabilitation by clinicians and younger investigators. Honorees receive a \$500 stipend and an award certificate.

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